PROGRESS MACHINE WORKS,

ESTABLISHED 1854.

WORKS: { NOS. 57, 59 & 61 LEWIS ST.,
" 60, 62, 64 & 66 CANNON ST.

Office and Salesroom:

43 PARK PLACE, NEW YORK.

A. & F. BROWN'S

ILLUSTRATED

CATALOGUE AND PRICE LIST

OF

SHAFTING, ETC.

APPLY FOR DISCOUNT.

BRUNO BROS., STEAM PRINTERS, 113 NASSAU ST., N. Y.

TERMS:

Cash at our Office.

Boxing and Cartage, in addition, at cost.

Not responsible for safe and prompt delivery after shipment.

Extra charges are not subject to discounts.

1884.

Since the establishment of our machine works in 1854, we have constantly increased our capacity and also the number of patterns that are required for the manufacture of our specialties.

We have abandoned entire sets of patterns, and have replaced such at an enormous expense until we succeeded in attaining **superior patterns**, which, we think, cannot be excelled.

Our **Shafts** are all of uniform diameter, turned to the Whitworth gauge, perfectly straightened and finely polished.

We are furnishing wrought iron Shafts from 1 to 24 feet in length without charge for cutting.

Pulleys are beautifully designed and of unequaled proportions; thus combining strength and handsome appearance. All our Pulleys are balanced by **patent machinery**, by means of which an exact distribution of weight is attained. We are enabled to balance Pulleys **accurately** to any given speed.

Bearings are all made of an appropriate length, lined with a superior quality of Babbitt metal, the composition of which is the result of long years' experience in the use of various grades of anti-friction metal. Our newly patented **self-oiling arrangement** is simple and everlasting.

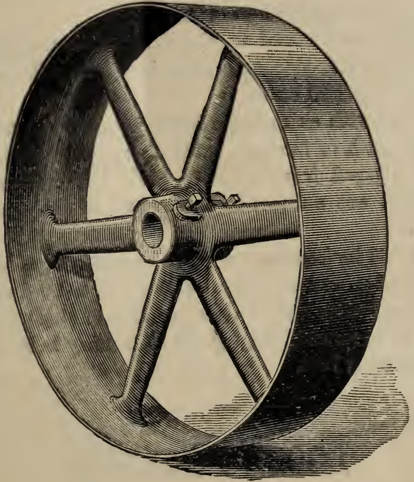
Our **Patented Internal Clamp Coupling** is a perfect substitute for the rigid Plate- or Flange-Coupling, as far as strength and durability is concerned. For convenience there is no better Coupling known. It is easy attached and detached. The inner Clamp-parts are made of wrought iron and the outer surface is smooth and nicely polished. The entire Coupling is perfectly balanced.

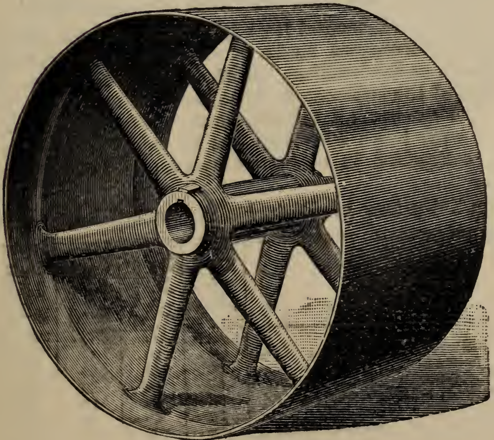
The **F. Brown Patent Friction Clutch** is the strongest and best-balanced in the market. We have numerous testimonials to that effect and any impartial mechanical Engineer will readily verify our statement.

For the convenience of our patrons we have annexed to this list a table giving all the required dimensions of all styles of Hangers and other Bearings. By means of this table the necessary timber may be prepared in advance and loss of valuable time may be prevented.

* * *

BALANCED PULLEYS.





BALANCED PULLEYS.

We supply our Pulleys with one or two Set-Screws according to size.

Keyseats are slotted when ordered.

Our Pulleys are bored to the Whitworth-Gauge; smallest fraction of bore one-sixteenth of an inch. Any deviation therefrom will be charged extra.

For Pulleys with extra large bore, in proportion to their diameter and width of face, an extra charge will be made.

Pulleys ordered from ½ to ¾ inch wider than quoted in our price-list are subject to the price of the next following width.

Pulleys of 36 inches diameter and over are supplied with two sets of arms at an extra charge of from 10 to 50 dollars.

In ordering Pulleys, state the exact size of shaft, and whether the face is to be round, (high,) for stationary belt, or straight, (flat,) for shifting belt.

LOOSE PULLEYS.

We are providing loose Pulleys with extra long hubs, faced off on both sides and with Oil-Tubes of proper sizes.

Loose Pulleys intended for high speed, and for other trying work, were heretofore made at an extra large expense. We found that a metal-bushing, which is freely revolving between the shaft and the inside hub of the loose Pulley, when properly oiled, will answer all requirements. The demand in loose Pulleys, with loose bushings has so rapidly increased, that we were compelled to construct special tools for their manufacture.

To the list-prices of *Plain Pulleys* we add extra as follows:

Extra charges.	6 to 12 inches diameter.	13 to 24 inches diameter.	25 to 36 inches diameter.	37 to 48 inches diameter.	49 inches diameter and over.
	perct.	perct.	perct.	perct.	perct.
For loose Pulleys	25	20	15	12½	10
" " bushings	50	40	30	25	20
" patent bent Oilers	50	30	20	12½	10
" pulleys with Flange in Centre.	25	25	25	25	25
" " " " on Edge ...	50	50	50	50	50
" " " " on both Edges...	100	100	100	100	100
" " " Clamp Hub............	25	25	25	25	25

BALANCED PULLEYS.

Diameter in inches.	Width of Face.	Single Belt.	
		Straight.	Round.
5	3	1 00	1 10
	4	1 05	1 15
	5	1 10	1 20
	6	1 25	1 35
	7	1 30	1 40
	8	1 40	1 50
	9	1 50	....
	10	1 70	....
	12	2 20	....
	14	2 70	....
5½	3	1 10	1 20
	4	1 15	1 25
	5	1 25	1 35
	6	1 35	1 45
	7	1 50	1 60
	8	1 60	1 75
	9	1 75	....
	10	1 95	....
	12	2 40	....
	14	2 90	....
6	3	1 20	1 35
	4	1 30	1 45
	5	1 40	1 55
	6	1 50	1 65
	7	1 65	1 80
	8	1 75	1 90
	9	1 95	....
	10	2 15	....
	12	2 60	....
	14	3 10	....
6½	3	1 30	1 45
	4	1 40	1 55
	5	1 55	1 65
	6	1 70	1 80
	7	1 85	1 95
	8	1 95	2 10
	9	2 15	....
	10	2 35	....
	12	2 85	....
	14	3 25	....
7	3	1 40	1 55
	4	1 55	1 70
	5	1 70	1 90
	6	1 85	2 05
	7	2 00	2 20
	8	2 15	2 35
	9	2 35	....
	10	2 55	....
	12	3 05	....
	14	3 60	....
7½	3	1 50	1 65
	4	1 65	1 80
	5	1 85	2 00
	6	2 00	2 20
	7	2 15	2 35
	8	2 35	2 55
	9	2 55	3 00
	10	2 75	....
	12	3 30	....
	14	3 95	....
8	3	1 60	1 80
	4	1 80	2 00
	5	2 00	2 20
	6	2 15	2 40
	7	2 35	2 60
	8	2 55	2 85
	9	2 75	3 05
	10	3 00	....
	12	3 55	....
	14	4 30	....
8½	3	1 70	1 85
	4	1 95	2 10
	5	2 15	2 30
	6	2 30	2 50
	7	2 50	2 80
	8	2 75	3 05
	9	3 00	3 30
	10	3 25	....
	12	3 75	....
	14	4 45	....
9	3	1 90	2 15
	4	2 05	2 30
	5	2 25	2 50
	6	2 45	2 75

BALANCED PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.	
		Straight.	Round.
9	7	2 70	3 00
	8	2 90	3 25
	9	3 20	3 55
	10	3 45	3 85
	12	4 00	....
	14	4 60	....
9½	3	2 05	2 25
	4	2 25	2 50
	5	2 45	2 70
	6	2 60	2 90
	7	2 85	3 15
	8	3 10	3 45
	9	3 40	3 75
	10	3 70	4 10
	12	4 25	....
	14	4 90	....
10	3	2 25	2 50
	4	2 45	2 70
	5	2 60	2 90
	6	2 75	3 05
	7	3 05	3 40
	8	3 30	3 70
	9	3 60	4 00
	10	3 90	4 35
	12	4 50	....
	14	5 20	....
10½	3	2 30	2 55
	4	2 50	2 75
	5	2 75	3 05
	6	2 95	3 25
	7	3 25	3 60
	8	3 55	3 90
	9	3 85	4 25
	10	4 15	4 60
	12	4 75	....
	14	5 50	....
11	3	2 35	2 60
	4	2 55	2 80
	5	2 85	3 15
	6	3 15	3 45
	7	3 45	3 80
	8	3 75	4 15
11	9	4 10	4 50
	10	4 40	4 90
	12	5 00	5 60
	14	5 75	....
11½	3	2 45	2 70
	4	2 65	2 95
	5	2 95	3 30
	6	3 25	3 60
	7	3 60	4 00
	8	3 85	4 35
	9	4 25	4 75
	10	4 45	5 15
	12	5 20	5 85
	14	5 90	....
12	3	2 55	2 85
	4	2 75	3 10
	5	3 10	3 50
	6	3 35	3 80
	7	3 75	4 20
	8	4 05	4 55
	9	4 40	4 95
	10	4 75	5 35
	12	5 40	6 10
	14	6 10	....
13	3	2 75	3 00
	4	2 95	3 35
	5	3 30	3 70
	6	3 70	4 15
	7	4 00	4 55
	8	4 35	4 95
	9	4 75	5 35
	10	5 20	5 80
	12	5 90	6 65
	14	6 70	....
14	3	2 95	3 30
	4	3 15	3 55
	5	3 50	4 00
	6	3 90	4 40
	7	4 30	4 85
	8	4 65	5 25
	9	5 10	5 70
	10	5 60	6 20

BALANCED PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.	
		Straight.	Round.
14	12	6 30	7 10
	14	7 15	....
15	3	3 05	3 40
	4	3 35	3 80
	5	3 80	4 30
	6	4 25	4 75
	7	4 65	5 20
	8	5 10	5 70
	9	5 50	6 15
	10	5 95	6 65
	12	6 80	7 40
	14	7 80	....
16	3	3 30	3 70
	4	3 55	4 00
	5	4 05	4 45
	6	4 50	5 00
	7	4 95	5 55
	8	5 40	6 10
	9	5 85	6 55
	10	6 30	7 10
	12	7 20	8 15
	14	8 15	9 15
17	3	3 50	4 00
	4	3 75	4 25
	5	4 25	4 70
	6	4 75	5 30
	7	5 25	5 90
	8	5 70	6 55
	9	6 15	7 00
	10	6 65	7 50
	12	7 65	8 60
	14	8 80	9 75
18	3	3 70	4 20
	4	3 95	4 40
	5	4 50	5 05
	6	5 00	5 65
	7	5 50	6 20
	8	6 05	6 85
	9	6 55	7 40
	10	7 10	8 00
	12	8 10	9 10
	14	9 15	10 30
19	3	3 85	4 35
	4	4 10	4 65
	5	4 55	5 20
	6	5 20	5 95
	7	5 75	6 55
	8	6 25	7 15
	9	6 85	7 80
	10	7 45	8 50
	12	8 60	9 80
	14	10 00	11 45
	16	11 40	13 00
	18	13 00	....
	20	15 00	.....
20	3	4 00	4 55
	4	4 30	4 95
	5	4 90	5 60
	6	5 50	6 25
	7	6 10	6 90
	8	6 70	7 60
	9	7 35	8 30
	10	8 00	9 00
	12	9 30	10 50
	14	11 00	12 55
	16	12 70	14 50
	18	14 80	16 90
	20	17 30	.....
21	3	4 25	4 80
	4	4 50	5 15
	5	5 15	5 85
	6	5 75	6 55
	7	6 35	7 25
	8	7 00	8 00
	9	7 70	8 85
	10	8 45	9 65
	12	10 00	11 35
	14	11 90	13 65
	16	14 00	16 00
	18	16 45	18 80
	20	19 35	.....
22	4	4 65	5 30
	5	5 30	6 10
	6	6 00	6 85
	7	6 60	7 55

Diameter in inches.	Double Belt.	Single Belt.		Width of Face.
		Straight	Round.	
22	8	7 25	8 30	......
	9	8 10	9 25	......
	10	9 00	10 20	......
	12	10 55	12 00	......
	14	12 90	14 70	......
	16	15 35	17 50	......
	18	18 10	20 70	......
	20	21 45	24 50	......
23	4	4 80	5 60	......
	5	5 25	6 35	......
	6	6 25	7 10	......
	7	6 95	7 95	......
	8	7 60	8 70	......
	9	8 50	9 75	......
	10	9 45	10 80	......
	12	11 25	12 85	......
	14	13 80	15 80	......
	16	16 65	19 00	......
	18	19 75	22 60	......
	20	23 40	26 80	......
24	4	5 10	5 90	7 30
	5	5 80	6 65	8 25
	6	6 50	7 45	9 30
	7	7 25	8 00	10 35
	8	8 00	9 15	11 45
	9	9 00	10 25	13 35
	10	10 00	11 40	14 25
	12	12 00	13 70	17 10
	14	15 00	17 00	21 35
	16	18 00	20 50	25 70
	18	21 55	24 65	30 85
	20	25 65	29 30	37 00
25	4	5 35	6 25	7 80
	5	6 25	7 20	9 00
	6	7 10	8 10	10 15
	7	7 60	9 00	11 25
	8	8 70	10 00	12 50
	9	9 75	11 15	14 00
	10	10 75	12 35	15 45
	12	12 85	14 75	18 50
	14	16 00	18 20	22 75
	16	18 85	21 70	27 10
	18	22 50	25 80	32 30

Diameter in inches.	Width of Face.	Single Belt.		Double Belt.
		Straight	Round.	
25	20	26 65	30 60	38 25
26	4	5 80	6 75	8 40
	5	6 65	7 75	9 70
	6	7 60	8 85	11 00
	7	8 45	9 75	12 15
	8	9 30	10 30	13 40
	9	10 45	12 00	15 00
	10	11 60	13 30	16 65
	12	13 80	15 80	19 75
	14	16 75	19 25	24 00
	16	19 80	22 80	28 50
	18	23 55	27 10	34 30
	20	27 80	31 90	39 90
27	4	6 25	7 20	9 00
	5	7 20	8 30	10 35
	6	8 10	9 35	11 70
	7	9 25	10 45	12 00
	8	10 05	11 60	14 45
	9	11 20	12 90	16 10
	10	12 40	14 25	17 80
	12	14 70	16 90	21 10
	14	17 70	20 35	25 40
	16	20 75	23 85	29 75
	18	24 60	28 25	35 35
	20	29 00	33 20	41 50
28	4	6 65	7 65	9 55
	5	7 70	8 85	11 00
	6	8 75	10 00	12 55
	7	9 90	11 30	14 10
	8	10 75	12 35	15 45
	9	12 00	13 75	17 20
	10	13 20	15 15	19 00
	12	15 70	17 90	22 35
	14	18 60	21 40	26 80
	16	21 70	25 00	31 15
	18	25 65	29 45	36 80
	20	30 00	34 45	43 10
29	4	7 10	8 10	10 15
	5	8 15	9 40	11 75
	6	9 25	10 65	13 30
	7	10 35	12 00	14 90
	8	11 45	13 10	16 40

Diameter in inches.	Width of Face.	Single Belt.		Double Belt.
		Straight	Round.	
29	9	12 70	14 50	18 25
	10	14 00	16 00	20 10
	12	16 50	19 00	23 70
	14	19 55	22 00	28 00
	16	22 55	26 00	32 50
	18	26 70	30 65	38 30
	20	31 10	35 75	44 80
30	4	7 45	8 55	10 70
	5	8 60	9 90	12 35
	6	9 90	11 25	14 00
	7	11 00	12 65	15 85
	8	12 20	14 00	17 50
	10	14 70	17 00	21 20
	12	17 45	20 00	25 00
	14	20 45	23 50	29 40
	16	23 25	27 00	33 80
	18	27 85	32 00	39 50
	20	31 80	37 10	46 25
31	4	7 65	8 90	11 10
	5	8 85	10 30	12 85
	6	10 10	11 70	14 65
	7	11 20	13 00	16 35
	8	12 40	14 45	18 00
	10	15 00	17 55	21 90
	12	17 65	20 60	25 80
	14	21 55	24 00	30 00
	16	23 75	27 75	34 70
	18	27 75	32 75	40 70
	20	32 45	38 00	47 25
32	4	8 00	9 30	11 65
	5	9 20	10 75	13 40
	6	10 45	12 15	15 20
	7	11 65	13 55	17 00
	8	12 90	15 00	18 80
	10	15 55	18 10	22 65
	12	18 25	21 20	26 60
	14	22 35	24 85	31 00
	16	24 35	28 40	35 55
	18	28 55	33 30	41 60
	20	33 00	38 60	48 25
33	4	8 25	9 65	12 00
	5	9 55	11 10	13 90
33	6	10 85	12 65	15 75
	7	12 00	14 00	17 60
	8	13 35	15 55	19 40
	10	16 00	18 70	23 40
	12	18 75	21 90	27 35
	14	22 85	25 50	31 85
	16	25 00	29 10	36 45
	18	29 25	34 15	42 70
	20	33 75	39 40	49 25
34	4	8 60	10 00	12 50
	5	9 90	11 55	14 40
	6	11 20	13 00	16 35
	7	12 50	14 60	18 25
	8	13 75	16 00	20 50
	10	16 60	19 30	24 15
	12	19 30	22 50	28 15
	14	23 45	26 15	32 75
	16	25 50	29 85	37 30
	18	30 00	34 90	43 65
	20	34 50	40 25	50 25
35	4	8 90	10 30	13 00
	5	10 20	11 90	14 90
	6	11 60	13 50	16 85
	7	12 85	15 00	18 80
	8	14 20	16 60	20 75
	10	17 00	19 90	24 85
	12	19 85	23 20	29 00
	14	24 00	26 85	33 55
	16	26 20	30 55	38 20
	18	30 60	35 65	44 65
	20	35 15	41 00	51 25
36	4	9 25	10 80	13 50
	5	10 65	12 40	15 50
	6	12 00	14 00	17 50
	7	13 40	15 60	19 50
	8	14 75	17 20	21 50
	10	17 55	20 50	25 65
	12	20 50	23 80	29 75
	14	24 60	27 50	34 40
	16	26 85	31 30	39 15
	18	31 30	36 50	46 65
	20	35 90	41 85	52 35

BALANCED PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.		Double Belt.
		Straight	Round	
37	6	14 00	15 65	18 30
	8	17 00	19 20	23 85
	10	19 85	22 80	29 45
	12	22 80	25 90	33 40
	14	25 65	29 35	38 00
	16	28 50	32 75	42 50
	18	31 90	37 00	48 00
	20	36 75	42 70	54 60
38	6	15 90	17 35	19 00
	8	19 25	21 15	26 10
	10	22 10	25 00	31 50
	12	25 15	28 00	35 00
	14	27 55	31 10	41 55
	16	30 15	34 20	45 35
	18	32 55	37 50	50 10
	20	37 50	43 45	56 75
	22	41 25	47 80	62 50
	24	46 20	53 50	70 00
39	6	....	18 00	21 70
	8	....	21 00	27 00
	10	....	24 35	31 75
	12	....	28 65	35 70
	14	....	31 65	42 00
	16	....	34 80	46 30
	18	....	38 80	52 35
	20	....	44 20	59 25
	22	....	49 15	65 75
	24	....	55 00	73 60
40	6	....	18 50	24 40
	8	....	21 90	28 00
	10	....	26 25	32 00
	12	....	29 35	36 40
	14	....	32 10	42 50
	16	....	35 40	47 25
	18	....	40 15	54 60
	20	....	45 00	61 75
	22	....	50 50	69 00
	24	....	56 75	77 25
41	6	....	19 00	25 60
	8	....	22 20	28 85
	10	....	27 00	32 60
	12	....	30 00	37 20

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
41	14	32 80	42 85
	16	36 55	48 60
	18	41 30	56 85
	20	46 10	64 35
	22	51 75	72 00
	24	58 00	80 60
42	6	19 25	26 85
	8	22 55	29 70
	10	27 40	33 25
	12	30 50	38 00
	14	33 50	43 20
	16	37 75	50 00
	18	42 50	59 15
	20	47 25	67 00
	22	53 00	75 00
	24	59 25	84 00
43	6	20 25	28 00
	8	23 65	31 00
	10	28 00	35 00
	12	31 00	39 40
	14	34 30	43 15
	16	38 80	50 65
	18	45 25	63 00
	20	50 00	69 80
	22	56 00	79 00
	24	62 60	88 50
44	6	21 30	29 00
	8	24 70	32 30
	10	28 55	37 00
	12	31 50	40 85
	14	35 15	45 10
	16	39 90	51 30
	18	48 00	67 00
	20	52 75	72 75
	22	59 00	83 00
	24	66 00	93 00
45	6	22 00	30 85
	8	25 75	35 00
	10	29 60	38 90
	12	33 00	43 00
	14	37 00	47 60
	16	41 50	54 15

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
45	18	50 00	68 00
	20	56 50	76 50
	22	63 25	85 00
	24	70 75	95 00
46	6	22 75	32 75
	8	26 85	35 50
	10	30 65	40 85
	12	34 45	45 00
	14	39 00	50 00
	16	43 20	57 00
	18	52 25	68 85
	20	60 30	78 00
	22	67 50	87 00
	24	75 50	97 50
47	6	23 50	33 25
	8	27 65	36 25
	10	31 50	41 30
	12	34 90	46 25
	14	39 90	52 00
	16	44 75	59 35
	18	53 15	70 75
	20	61 15	80 30
	22	68 90	90 00
	24	76 50	100 00
48	6	24 50	33 75
	8	28 50	37 00
	10	32 30	41 80
	12	35 40	47 50
	14	40 85	54 15
	16	46 30	61 75
	18	54 15	72 65
	20	62 00	82 65
	22	69 35	93 00
	24	77 50	103 50
49	6	25 50	36 00
	8	29 25	39 50
	10	33 50	43 75
	12	36 50	48 75
	14	42 25	55 30
	16	47 85	64 25
	18	55 80	74 50
	20	63 85	85 30
49	22	71 00	95 50
	24	79 75	106 25
50	6	26 75	38 00
	8	30 00	41 80
	10	34 65	45 60
	12	37 75	50 00
	14	43 70	57 50
	16	49 40	66 80
	18	57 50	76 50
	20	65 75	88 00
	22	73 00	98 25
	24	82 00	109 25
51	6	27 35	38 75
	8	30 65	42 25
	10	35 30	46 50
	12	38 85	51 60
	14	45 00	58 85
	16	51 00	68 00
	18	59 25	78 35
	20	67 85	89 85
	22	75 85	100 00
	24	86 00	111 75
52	6	28 00	39 50
	8	31 25	42 75
	10	36 00	47 50
	12	40 00	53 25
	14	46 50	60 25
	16	52 50	69 00
	18	61 00	80 25
	20	70 00	91 75
	22	78 75	102 75
	24	90 00	114 00
54	6	29 00	40 75
	8	32 75	45 00
	10	37 75	50 25
	12	42 75	57 00
	14	49 00	65 00
	16	55 50	74 00
	18	64 50	86 00
	20	73 00	97 25
	22	81 75	110 00
	24	91 00	122 00

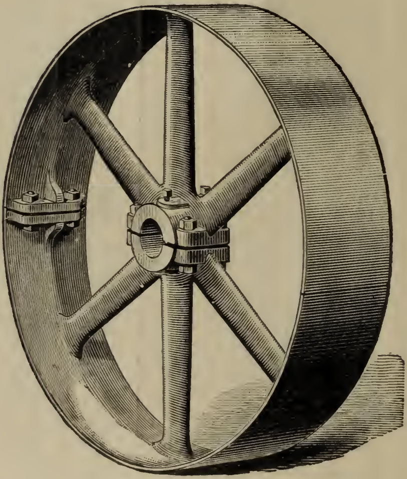
BALANCED PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
56	6	30 00	42 75
	8	34 00	46 50
	10	39 50	52 25
	12	45 00	59 50
	14	51 25	67 50
	16	58 50	77 50
	18	67 50	89 25
	20	76 50	101 00
	22	85 50	114 50
	24	95 00	127 00
57	6	30 50	43 00
	8	34 50	47 50
	10	40 35	53 75
	12	46 35	61 00
	14	52 85	69 50
	16	60 25	80 00
	18	69 25	91 75
	20	78 50	103 75
	22	88 25	117 25
	24	97 50	130 00
58	6	31 00	43 75
	8	35 00	48 50
	10	41 25	55 00
	12	47 75	62 75
	14	54 50	71 75
	16	62 25	82 25
	18	71 25	94 50
	20	80 75	106 50
	22	91 25	119 75
	24	100 00	133 50
60	6	32 00	45 50
	8	36 00	51 25
	10	43 50	59 00
	12	51 00	68 00
	14	59 00	78 00
	16	67 50	89 25
	18	76 00	101 25
	20	85 50	113 50
	22	96 50	127 00
	24	107 00	142 50
62	6	35 00	49 00
	8	40 00	56 00
62	10	49 00	64 00
	12	55 00	73 50
	14	64 00	85 00
	16	73 00	97 00
	18	82 00	114 00
	20	90 00	121 00
	22	102 00	136 00
	24	114 00	152 00
64	6	36 75	51 00
	8	41 75	58 50
	10	50 00	66 75
	12	57 50	76 50
	14	66 25	88 25
	16	75 50	100 00
	18	85 00	115 00
	20	94 00	125 00
	22	105 00	141 00
	24	118 00	158 00
66	6	38 50	53 25
	8	43 75	61 25
	10	51 25	69 75
	12	59 50	79 50
	14	68 75	91 75
	16	78 00	104 50
	18	88 00	117 25
	20	97 75	129 75
	22	109 00	146 25
	24	122 00	164 00
68	6	40 50	57 50
	8	47 50	66 00
	10	56 00	76 00
	12	64 50	86 00
	14	74 00	99 00
	16	84 00	112 00
	18	94 00	125 00
	20	104 00	138 00
	22	116 00	156 00
	24	130 00	175 00
72	6	42 75	61 75
	8	51 25	71 25
	10	60 75	82 00
	12	69 50	93 00

BALANCED PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.	Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
72	14	80 25	106 50	84	14	104 50	135 00
	16	90 00	120 00		16	114 00	144 50
	18	101 00	134 00		18	123 50	169 00
	20	111 50	149 00		20	133 00	182 50
	22	124 00	167 00		22	142 50	197 50
	24	139 50	186 50		24	152 00	214 00
75	6	48 50	67 00	90	10	102 00	136 00
	8	57 50	77 00		12	111 00	145 00
	10	67 00	88 50		14	121 00	156 00
	12	76 50	100 00		16	131 00	167 00
	14	86 50	112 50		18	140 00	191 00
	16	96 00	125 50		20	150 00	206 00
	18	106 50	138 00		22	159 00	218 00
	20	117 00	153 00		24	168 00	235 00
	22	129 00	172 00	96	10	118 75	156 50
	24	143 50	193 00		12	128 25	166 25
76	6	51 00	69 00		14	137 75	178 00
	8	60 00	80 00		16	147 25	190 00
	10	70 00	92 00		18	156 75	204 25
	12	78 00	103 00		20	166 25	218 50
	14	89 00	116 00		22	175 75	237 50
	16	99 00	128 00		24	185 00	256 50
	18	109 00	140 00	108	10	146 25	190 00
	20	120 00	155 00		12	155 75	200 00
	22	132 00	174 00		14	166 25	209 00
	24	145 00	196 00		16	176 75	223 25
78	6	54 25	71 25		18	187 25	237 50
	8	63 75	83 00		20	197 50	261 25
	10	73 50	95 00		22	208 00	285 00
	12	83 00	106 50		24	218 50	313 50
	14	92 50	119 25	120	10	173 25	221 00
	16	102 00	131 50		12	183 25	240 00
	18	112 50	142 50		14	194 75	261 25
	20	122 50	157 25		16	206 50	284 50
	22	134 50	176 75		18	218 50	304 00
	24	147 25	196 50		20	230 00	325 50
84	10	86 00	115 75		22	242 25	346 75
	12	95 00	125 50		24	254 00	368 00

SPLIT OR HALVED PULLEYS.



BALANCED SPLIT PULLEYS.

Diameter in inches.	Width of Face.	Single Belt.	
		Straight.	Round.
8	3	2 40	2 70
	4	2 70	3 00
	5	3 00	3 30
	6	3 25	3 60
	7	3 60	3 90
	8	3 90	4 35
	9	4 20	....
	10	4 50	....
	12	5 40	....
	14	6 45	....
8½	3	2 65	2 85
	4	3 00	3 20
	5	3 30	3 50
	6	3 50	3 80
	7	3 80	4 20
	8	4 20	4 50
	9	4 50	5 00
	10	5 00	....
	12	5 75	....
	14	6 75	....
9	3	2 90	3 25
	4	3 10	3 50
	5	3 40	3 75
	6	3 75	4 20
	7	4 00	4 50
	8	4 40	4 80
	9	4 80	5 40
	10	5 25	5 75
	12	6 00	....
	14	7 00	....
9½	3	3 10	3 40
	4	3 40	3 75
	5	3 70	4 00
	6	3 90	4 40
	7	4 25	4 75
	8	4 65	5 15
	9	5 10	5 55
	10	5 55	6 15
	12	6 35	....
	14	7 35	....
10	3	3 35	3 70
	4	3 60	4 00
10	5	3 90	4 40
	6	4 15	4 70
	7	4 55	5 10
	8	5 00	5 55
	9	5 40	6 00
	10	5 85	6 50
	12	6 75	....
	14	7 80	....
10½	3	3 50	3 85
	4	3 75	4 15
	5	4 15	4 60
	6	4 45	4 85
	7	4 80	5 40
	8	5 35	5 85
	9	5 80	6 45
	10	6 25	6 90
	12	7 10	....
	14	8 25	....
11	3	3 60	3 95
	4	3 85	4 25
	5	4 30	4 75
	6	4 75	5 25
	7	5 15	5 75
	8	5 60	6 25
	9	6 15	6 75
	10	6 60	7 35
	12	7 50	8 40
	14	8 60	....
11½	3	3 70	4 10
	4	4 00	4 45
	5	4 45	5 00
	6	4 90	5 45
	7	5 40	6 00
	8	5 80	6 45
	9	6 35	7 10
	10	6 75	7 75
	12	7 80	8 80
	14	8 85	....
12	3	3 75	4 20
	4	4 10	4 55
	5	4 55	5 10
	6	5 00	5 60

BALANCED SPLIT PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.	
		Straight.	Round.
12	7	5 50	6 15
	8	5 90	6 55
	9	6 50	7 25
	10	6 90	7 90
	12	8 00	9 00
	14	9 00	....
13	3	3 85	4 30
	4	4 20	4 65
	5	4 65	5 20
	6	5 10	5 75
	7	5 60	6 30
	8	6 00	6 65
	9	6 65	7 40
	10	7 10	8 10
	12	8 25	9 25
	14	9 25	....
14	3	4 15	4 60
	4	4 40	5 00
	5	4 90	5 60
	6	5 45	6 15
	7	6 00	6 80
	8	6 50	7 30
	9	7 15	8 00
	10	7 85	8 70
	12	8 80	10 00
	14	10 00	.....
15	3	4 25	4 75
	4	4 70	5 30
	5	5 30	6 00
	6	6 00	6 65
	7	6 50	7 30
	8	7 15	8 00
	9	7 70	8 60
	10	8 30	9 30
	12	9 50	10 35
	14	11 00	.....
16	3	4 60	5 30
	4	5 00	5 60
	5	5 65	6 25
	6	6 30	7 00
	7	7 00	7 75
	8	7 55	8 55
16	9	8 20	9 15
	10	8 85	10 00
	12	10 10	11 50
	14	11 50	12 80
17	3	4 75	5 40
	4	5 20	5 85
	5	5 85	6 50
	6	6 55	7 30
	7	7 35	8 10
	8	7 85	9 00
	9	8 50	9 60
	10	9 25	10 50
	12	10 55	12 00
	14	12 25	13 50
18	3	4 90	5 50
	4	5 35	5 75
	5	5 85	6 55
	6	6 50	7 35
	7	7 15	8 00
	8	8 00	9 20
	9	8 75	9 75
	10	9 45	10 75
	12	10 75	12 25
	14	12 50	13 75
19	3	5 00	5 60
	4	5 45	6 00
	5	5 95	6 70
	6	6 75	7 75
	7	7 45	8 50
	8	8 25	9 45
	9	9 00	10 00
	10	9 65	11 00
	12	11 00	12 75
	14	13 00	14 75
	16	14 80	17 00
	18	17 00	.....
	20	19 50	.....
20	3	5 25	5 90
	4	5 60	6 40
	5	6 15	7 30
	6	7 15	8 10
	7	7 90	9 00

BALANCED SPLIT PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt. Straight.	Single Belt. Round.	Double Belt.
20	8	8 75	9 90	
	9	9 55	10 80	
	10	10 40	11 75	
	12	12 20	13 65	
	14	14 30	16 25	
	16	16 50	18 85	
	18	19 25	22 00	
	20	22 50	. . . . .	
21	3	5 40	6 15	
	4	5 85	6 75	
	5	6 75	7 60	
	6	7 50	8 50	
	7	8 25	9 50	
	8	9 00	10 50	
	9	10 00	11 50	
	10	11 00	12 50	
	12	13 00	14 75	
	14	14 50	17 50	
	16	18 25	20 85	
	18	21 25	24 25	
	20	25 25	. . . . .	
22	4	5 95	6 90	
	5	6 90	7 75	
	6	7 65	8 75	
	7	8 50	10 00	
	8	9 25	10 75	
	9	10 50	12 00	
	10	11 25	12 75	
	12	13 25	15 00	
	14	16 00	18 50	
	16	19 25	22 00	
	18	22 50	26 00	
	20	26 75	30 00	
23	4	6 10	7 15	
	5	7 00	8 00	
	6	7 80	8 90	
	7	8 70	10 25	
	8	9 50	11 00	
	9	10 75	12 25	
	10	11 80	13 50	
	12	14 00	16 00	
	14	17 25	19 75	
	16	20 75	23 75	
23	18	24 75	28 25	. . . .
	20	29 25	33 50	. . . .
24	4	6 40	7 40	9 00
	5	7 25	8 25	10 25
	6	8 00	9 25	11 50
	7	9 00	10 00	13 00
	8	10 00	11 50	14 25
	9	11 25	12 85	16 00
	10	12 50	14 25	18 00
	12	15 00	16 00	21 25
	14	18 75	21 25	26 50
	16	22 50	25 50	31 00
	18	26 75	30 75	38 50
	20	32 00	36 50	46 25
25	4	6 75	7 75	9 75
	5	7 75	9 00	11 25
	6	8 75	10 00	12 75
	7	9 50	11 25	14 00
	8	10 75	12 50	15 50
	9	12 10	14 00	17 35
	10	13 50	15 50	19 25
	12	16 00	18 50	23 00
	14	20 00	22 75	28 50
	16	23 50	27 00	33 75
	18	28 00	32 25	40 00
	20	33 25	38 25	48 00
26	4	7 25	8 25	10 50
	5	8 25	9 50	12 00
	6	9 50	11 00	13 75
	7	10 50	12 25	15 25
	8	11 50	13 50	16 75
	9	13 00	15 00	18 75
	10	14 50	16 50	20 75
	12	17 25	19 75	24 50
	14	21 00	24 00	30 00
	16	24 75	28 50	35 50
	18	28 25	33 75	42 75
	20	34 75	38 75	49 75
27	4	7 75	9 00	11 25
	5	9 00	10 50	13 00
	6	10 00	11 50	14 50
	7	11 50	13 00	15 00

BALANCED SPLIT PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.		Double Belt.
		Straight	Round.	
27	8	12 50	14 50	18 00
	9	14 00	16 00	20 00
	10	15 50	17 75	22 25
	12	18 25	21 00	26 25
	14	22 00	25 50	31 75
	16	26 00	29 75	37 75
	18	30 75	35 25	44 00
	20	36 25	41 50	51 75
28	4	8 00	9 25	11 50
	5	9 25	10 75	13 25
	6	10 50	12 25	15 00
	7	12 00	13 50	17 00
	8	13 00	14 75	18 50
	9	14 50	16 50	20 50
	10	15 75	18 25	22 75
	12	18 75	21 50	26 75
	14	22 25	25 75	32 25
	16	26 00	30 00	37 25
	18	31 00	36 25	44 25
	20	36 25	41 25	51 75
29	4	8 50	9 75	12 25
	5	9 75	11 25	14 50
	6	11 50	12 75	16 00
	7	12 50	14 50	18 00
	8	13 75	15 75	19 50
	9	15 25	17 50	22 75
	10	16 75	19 25	24 00
	12	19 75	22 75	28 50
	14	23 50	26 50	33 50
	16	27 00	31 25	39 00
	18	32 00	36 75	46 00
	20	37 25	43 00	53 75
30	4	9 00	10 25	12 75
	5	10 25	12 00	14 75
	6	12 00	13 50	16 75
	7	13 25	15 25	19 00
	8	14 75	16 75	21 00
	10	17 50	20 50	25 50
	12	21 00	24 00	30 00
	14	24 50	28 25	35 25
	16	28 00	32 50	40 50
	18	32 75	38 50	47 50
	20	38 00	44 50	55 50
31	4	9 25	10 75	13 25
	5	10 50	12 50	15 50
	6	12 25	14 00	17 50
	7	13 50	15 75	19 50
	8	15 00	17 50	21 50
	10	18 00	21 00	26 25
	12	21 50	24 75	31 00
	14	25 75	28 75	36 00
	16	28 50	33 25	41 50
	18	33 25	39 25	48 75
	20	39 00	45 50	56 75
32	4	9 50	11 25	14 00
	5	11 00	13 00	16 00
	6	12 50	14 50	18 25
	7	14 00	16 25	20 50
	8	15 50	18 00	22 50
	10	18 75	21 75	27 25
	12	22 00	25 50	31 75
	14	26 75	29 75	37 25
	16	29 25	34 00	42 75
	18	34 25	40 00	50 00
	20	39 75	46 50	58 00
33	4	10 00	11 50	14 50
	5	11 50	13 50	16 50
	6	13 00	15 25	19 00
	7	14 50	16 75	21 00
	8	16 00	18 75	23 25
	10	19 25	22 50	28 00
	12	22 50	26 25	32 75
	14	27 25	30 50	38 25
	16	30 00	35 00	43 75
	18	35 00	41 00	51 25
	20	40 50	47 25	59 00
34	4	10 25	12 00	15 00
	5	12 00	14 00	17 25
	6	13 50	15 75	19 50
	7	15 00	17 50	22 00
	8	16 50	19 25	24 50
	10	19 75	23 25	29 00
	12	23 00	27 00	33 75
	14	28 00	31 25	39 25
	16	30 75	35 75	44 75
	18	36 00	42 25	52 25

BALANCED SPLIT PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.		Double Belt.
		Straight	Round	
34	20	41 50	48 25	60 25
35	4	10 75	12 50	15 50
	5	12 25	14 25	17 75
	6	14 00	16 25	20 25
	7	15 50	18 00	23 50
	8	17 00	20 00	25 00
	10	20 00	24 00	29 75
	12	23 75	27 75	34 75
	14	28 75	32 00	40 00
	16	31 50	36 75	45 50
	18	36 75	42 75	53 50
	20	42 25	49 25	61 50
36	4	11 25	13 00	16 25
	5	12 75	15 00	18 75
	6	14 50	16 75	21 00
	7	16 00	18 75	24 50
	8	17 75	20 75	25 75
	10	21 00	24 50	30 75
	12	24 50	28 50	35 75
	14	27 50	33 00	41 25
	16	29 25	37 50	47 00
	18	37 50	43 75	56 00
	20	43 00	50 00	62 75
37	6	16 75	18 75	22 00
	8	20 50	23 00	28 50
	10	23 75	28 25	35 25
	12	27 50	31 00	40 00
	14	30 75	35 25	45 50
	16	34 00	39 25	51 00
	18	38 50	44 50	57 50
	20	44 00	51 00	65 50
38	6	19 00	20 75	22 75
	8	23 00	25 50	31 25
	10	26 50	30 00	37 75
	12	30 25	33 50	42 00
	14	33 00	37 25	49 75
	16	36 25	41 00	54 25
	18	39 00	45 00	60 00
	20	45 00	52 00	68 00
	22	49 50	57 50	75 00
	24	55 50	64 25	84 00

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
39	6	21 75	25 00
	8	26 00	31 75
	10	31 00	38 50
	12	34 00	41 75
	14	38 00	50 50
	16	42 00	55 00
	18	46 00	61 50
	20	53 00	69 50
	22	58 50	76 50
	24	65 50	86 00
40	6	22 75	28 00
	8	27 00	32 75
	10	32 00	39 25
	12	34 75	42 50
	14	39 00	51 50
	16	42 75	56 00
	18	47 00	62 75
	20	54 00	71 00
	22	60 00	79 00
	24	66 50	88 00
41	6	23 75	29 25
	8	28 00	33 50
	10	32 75	40 00
	12	35 50	43 00
	14	40 00	53 00
	16	43 50	57 00
	18	47 75	65 25
	20	55 00	74 00
	22	61 00	82 25
	24	67 50	92 50
42	6	24 75	30 75
	8	28 50	34 50
	10	33 50	41 00
	12	36 50	44 00
	14	41 00	54 00
	16	44 50	58 00
	18	48 75	68 00
	20	56 00	77 00
	22	62 00	85 00
	24	68 50	96 50
43	6	25 25	32 25
	8	29 25	35 75

BALANCED SPLIT PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
43	10	34 25	41 75
	12	37 50	45 25
	14	42 00	56 50
	16	45 50	59 00
	18	52 00	72 25
	20	57 50	80 00
	22	63 50	91 00
	24	72 00	102 00
44	6	25 75	33 50
	8	30 00	37 00
	10	35 00	42 75
	12	38 25	47 00
	14	43 00	58 00
	16	46 50	60 00
	18	55 25	77 00
	20	60 50	83 00
	22	68 00	95 50
	24	76 00	107 00
45	6	26 25	35 25
	8	30 50	40 25
	10	36 00	44 50
	12	39 00	49 50
	14	43 50	59 00
	16	47 75	62 25
	18	57 50	78 50
	20	65 00	87 00
	22	72 75	97 75
	24	81 00	109 25
46	6	26 75	37 50
	8	31 00	41 00
	10	36 75	47 00
	12	40 00	51 75
	14	45 00	60 00
	16	49 75	65 50
	18	60 00	80 00
	20	69 50	89 25
	22	77 50	100 00
	24	86 75	112 00
47	6	27 25	38 25
	8	31 75	41 75
	10	37 25	47 75
	12	40 75	53 00
47	14	46 00	61 00
	16	51 50	68 25
	18	61 00	81 25
	20	70 50	92 50
	22	79 00	103 50
	24	88 00	115 00
48	6	28 25	38 75
	8	32 75	42 50
	10	38 00	48 25
	12	41 50	54 50
	14	47 00	62 25
	16	53 25	71 00
	18	62 25	83 50
	20	71 50	95 00
	22	80 00	106 75
	24	89 50	119 00
49	6	29 25	41 50
	8	33 75	45 50
	10	38 75	50 25
	12	42 50	56 00
	14	48 50	63 50
	16	55 00	74 00
	18	64 00	85 50
	20	73 25	98 00
	22	81 50	110 00
	24	92 00	122 25
50	6	30 75	42 75
	8	35 00	48 00
	10	39 75	52 25
	12	43 50	57 50
	14	50 25	66 00
	16	57 00	77 00
	18	66 50	87 00
	20	75 50	101 50
	22	84 00	112 75
	24	94 25	125 50
51	6	31 50	43 75
	8	35 50	48 50
	10	40 50	53 50
	12	44 50	59 00
	14	51 75	67 50
	16	58 50	78 25

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
51	18	68 00	90 00
	20	77 50	103 50
	22	86 50	115 00
	24	99 00	129 00
52	6	32 25	45 25
	8	36 00	49 25
	10	41 50	54 50
	12	46 00	61 00
	14	53 50	69 25
	16	60 00	79 50
	18	70 00	92 00
	20	80 00	105 00
	22	90 50	119 00
	24	103 50	131 00
54	6	33 25	47 00
	8	37 50	51 75
	10	43 25	57 75
	12	49 00	62 75
	14	54 50	71 75
	16	62 00	81 50
	18	72 00	95 00
	20	82 50	107 50
	22	92 50	122 00
	24	105 00	134 00
56	6	34 00	48 00
	8	38 50	53 00
	10	44 00	59 00
	12	50 00	65 50
	14	56 50	74 00
	16	64 25	85 25
	18	74 25	98 00
	20	84 50	111 00
	22	94 00	126 00
	24	104 50	139 75
57	6	34 50	49 00
	8	39 50	54 00
	10	45 00	60 00
	12	51 00	67 25
	14	58 00	76 50
	16	69 00	88 00
	18	76 00	101 00
	20	85 50	114 00
57	22	97 50	129 00
	24	107 50	143 00
58	6	35 00	50 00
	8	40 50	55 00
	10	46 00	61 00
	12	52 50	69 00
	14	60 00	79 00
	16	70 00	90 50
	18	78 50	104 00
	20	89 00	117 00
	22	100 00	132 00
	24	110 00	147 00
60	6	35 75	51 00
	8	41 50	56 50
	10	47 75	65 00
	12	56 00	74 75
	14	65 00	85 75
	16	74 25	98 00
	18	83 50	111 25
	20	94 00	124 75
	22	106 00	139 75
	24	117 75	156 75
62	6	38 50	54 00
	8	44 00	61 50
	10	54 00	70 50
	12	60 50	80 75
	14	70 50	93 50
	16	80 00	106 75
	18	90 00	125 50
	20	99 00	133 00
	22	112 00	149 50
	24	125 50	167 00
64	6	40 50	56 00
	8	46 00	64 25
	10	55 00	73 25
	12	63 25	84 00
	14	73 00	97 00
	16	83 00	110 00
	18	93 50	126 50
	20	103 50	137 50
	22	115 50	155 00
	24	129 75	173 75

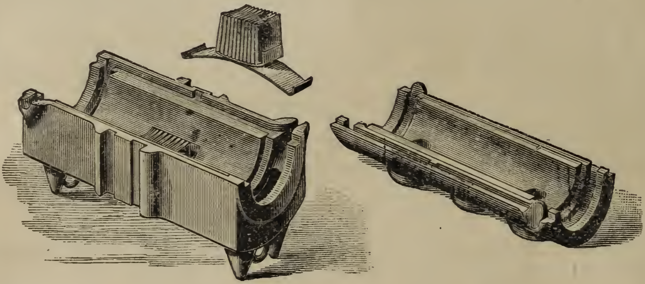
BALANCED SPLIT PULLEYS.—*Continued.*

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
66	6	42 25	58 50
	8	48 00	67 25
	10	56 25	76 75
	12	65 50	87 50
	14	75 50	101 00
	16	85 75	115 00
	18	96 75	129 00
	20	107 50	142 75
	22	120 00	160 75
	24	134 25	180 50
68	6	44 50	63 25
	8	52 25	72 50
	10	61 50	83 50
	12	71 00	94 50
	14	79 50	109 00
	16	92 50	123 00
	18	103 50	137 50
	20	114 50	151 75
	22	127 50	171 50
	24	143 00	192 50
72	6	47 00	68 00
	8	56 50	78 50
	10	66 75	90 00
	12	76 50	102 25
	14	88 25	117 00
	16	99 00	132 00
	18	111 00	147 50
	20	122 50	164 00
	22	136 50	183 75
	24	153 50	205 00
75	6	53 25	73 75
	8	63 25	84 75
	10	73 75	97 25
	12	84 00	110 00
	14	95 00	123 75
	16	105 50	138 00
	18	117 00	151 75
	20	128 75	168 25
	22	142 00	189 25
	24	157 75	212 25
76	6	56 00	76 00
	8	66 00	88 00
	10	77 00	101 25
	12	85 75	113 25
	14	98 00	127 50
	16	109 00	140 75
	18	120 00	154 00
	20	132 00	170 50
	22	145 00	191 50
	24	159 50	215 50
78	6	59 50	78 50
	8	70 00	91 25
	10	80 75	104 50
	12	91 25	117 00
	14	101 75	131 00
	16	112 00	144 50
	18	123 75	156 75
	20	134 75	173 00
	22	148 00	194 25
	24	162 00	219 50
84	10	94 50	127 00
	12	104 50	138 00
	14	115 00	148 50
	16	125 50	159 00
	18	135 75	186 00
	20	146 00	200 00
	22	156 75	217 25
	24	167 00	235 50
90	10	112 00	150 00
	12	122 00	160 00
	14	133 00	171 50
	16	144 00	183 75
	18	154 00	210 00
	20	165 00	220 00
	22	175 00	240 00
	24	185 00	258 50
96	10	130 50	172 00
	12	141 00	183 00
	14	151 50	195 75
	16	162 00	209 00
	18	172 00	225 00
	20	183 00	240 00
	22	193 50	261 00
	24	203 50	282 00

BALANCED SPLIT PULLEYS.—Continued.

Diameter in inches.	Width of Face.	Single Belt.	Double Belt.	Diameter in inches.	Width of Face.	Single Belt.	Double Belt.
108	10	160 75	209 00	120	10	190 50	243 00
	12	171 00	220 00		12	201 50	264 00
	14	183 00	230 00		14	214 00	287 50
	16	194 50	245 50		16	227 00	313 00
	18	206 00	261 00		18	240 00	334 50
	20	217 00	287 50		20	253 00	358 00
	22	229 00	313 50		22	266 50	381 50
	24	240 00	345 00		24	279 50	405 00

F. BROWN'S
PATENT
SELF-OILING ARRANGEMENT.



This Self-Oiler has been thoroughly tested before we have brought it into practical use.

The arrangement is very simple and effective, and its main advantage consists in drawing pure, liquid oil towards the shaft, while all impure residue will remain at the bottom of the oil-chamber.

Thus, we are avoiding clogging which is so frequently met with in other self-oiling arrangements.

HANGERS.

All our adjustable Hangers are so constructed that the Shaft can be laid in after the Hanger-frame is put up, and lines of shafting can be taken out of the boxes without removing the Hanger-frames. This is a labor and time saving feature of great advantage to consumers and millwrights.

Every bearing is lined with a tested grade of Babbitt metal, the superiority of which is fully acknowledged by a host of our customers.

We have a large variety in patterns of special Hangers and boxes to suit almost every demand. Our Catalogue would assume the shape of a large volume if we would undertake to represent every article, but we intend to inform the public of the existence of these special patterns, and shall be pleased to furnish special bearings at low rates.

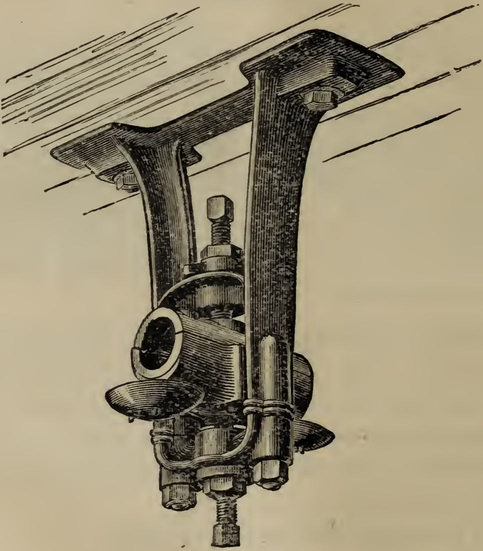
For dimensions see table pages 66 to 72.

DOUBLE BRACED ADJUSTABLE HANGERS

—WITH—

F. BROWN'S PATENT SELF-OILER

AND WITH BABBITTED BEARINGS.



FOR DIMENSIONS SEE TABLE PAGES 66 to 72.

DOUBLE BRACED ADJUSTABLE HANGERS.

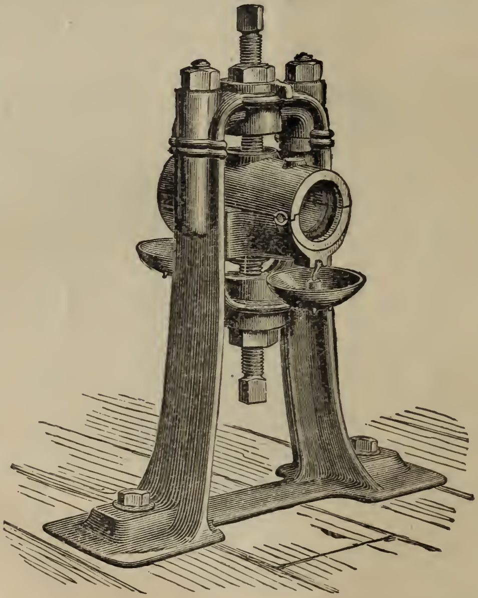
WITH F. BROWN'S PATENT SELF-OILER AND WITH BABBITTED BEARINGS.

Diameter of Shaft.	$\frac{15}{16}$	$1\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$	$3\frac{3}{16}$	$3\frac{7}{16}$	$3\frac{15}{16}$	$4\frac{7}{16}$	$4\frac{15}{16}$	$5\frac{3}{8}$	$5\frac{7}{8}$
6 inch Drop	2 25	2 50	2 75	3 25	....	....	....	....	....	....	....	....	....	....	....	....	....
7½ “ “	2 50	3 00	3 25	3 50	....	....	....	....	....	....	....	....	....	....	....	....	....
9 “ “	2 75	3 25	3 50	3 75	4 25	5 50	6 75	8 25	10 25	12 25	....	....	....	....	....	....	....
12 “ “	3 50	3 75	4 00	4 25	4 75	6 00	7 50	8 75	11 00	13 25	15 50	20 00	24 50	....	....	....	....
15 “ “	4 00	4 25	4 50	4 75	5 25	6 50	8 00	9 50	12 00	14 25	16 75	21 50	26 00	....	....	....	....
18 “ “	....	....	4 75	5 00	5 50	7 00	8 50	10 25	12 50	15 00	17 50	22 50	27 00	34 25	40 00	....	....
21 “ “	....	....	5 00	5 25	5 75	7 50	9 00	11 00	13 25	15 75	18 50	23 50	28 00	35 50	42 50	53 00	63 00
24 “ “	....	....	....	....	....	8 00	10 00	12 00	14 75	17 25	20 00	25 75	30 50	37 00	46 00	57 00	67 00
27 “ “	....	....	....	....	....	....	....	12 50	15 75	18 25	21 00	27 00	32 00	39 50	50 00	63 00	73 00
30 “ “	....	....	....	....	....	....	....	13 25	16 50	19 25	22 00	28 25	33 50	41 50	54 00	68 00	79 00
36 “ “	....	....	....	....	....	....	....	16 00	18 00	21 00	24 50	31 00	36 00	44 00	60 00	75 00	90 00

Shifter Arms from 50 cents to $1.00. For dimensions see table on pages 66 to 72.

DOUBLE BRACED ADJUSTABLE FLOOR STAND

With F. Brown's Patent Self-Oiler and with Babbitted Bearings.



FOR DIMENSIONS SEE TABLE PAGES 66 to 72.

DOUBLE BRACED ADJUSTABLE FLOOR-STANDS.

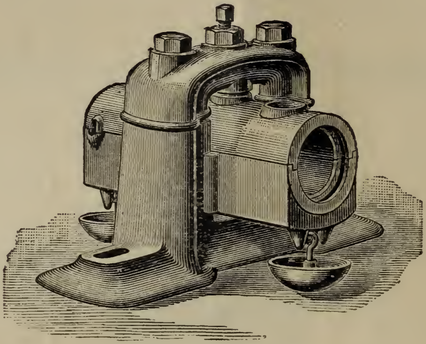
WITH F. BROWN'S PATENT SELF-OILER AND WITH BABBITTED BEARINGS.

Diameter of Shaft.	$\frac{15}{16}$	$1\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$	$3\frac{3}{16}$	$3\frac{7}{16}$	$3\frac{15}{16}$	$4\frac{7}{16}$	$4\frac{15}{16}$	$5\frac{3}{8}$	$5\frac{7}{8}$
6 inch Drop	2 25	2 50	2 75	3 25	....	....	....	....	....	....	....	....	....	....	....	....	....
7½ " "	2 50	3 00	3 25	3 50	....	....	....	....	....	....	....	....	....	....	....	....	....
9 " "	2 75	3 25	3 50	3 75	4 25	5 50	6 75	8 25	10 25	12 25	14 75	18 50	....	....	....	....	....
12 " "	3 50	3 75	4 00	4 25	4 75	6 00	7 50	8 75	11 00	13 25	15 50	20 00	24 50	....	....	....	....
15 " "	4 00	4 25	4 50	4 75	5 25	6 50	8 00	9 50	12 00	14 25	16 75	21 50	26 00	....	....	....	....
18 " "	....	....	4 75	5 00	5 50	7 00	8 50	10 25	12 50	15 00	17 50	22 50	27 00	34 25	40 00	....	....
21 " "	....	....	5 00	5 25	5 75	7 50	9 00	11 00	13 25	15 75	18 50	23 50	28 00	35 50	42 50	53 00	63 00
24 " "	....	....	...	....	....	8 00	10 00	12 00	14 75	17 25	20 00	25 75	30 50	37 00	46 00	57 00	67 00
27 " "	....	....	....	....	....	....	....	12 50	15 75	18 25	21 00	27 00	32 00	39 50	50 00	63 00	73 00
30 " "	....	....	....	....	....	....	....	13 25	16 50	19 25	22 00	28 25	33 50	41 50	54 00	68 00	79 00
[illegible]6 " "	....	....	....	....	....	....	....	16 00	18 00	21 00	24 50	31 00	36 00	44 00	60 00	75 00	90 00

Shifter Arms from 50 cents to $1.00. For dimensions see table on pages 66 to 72.

Patent Adjustable Pillow-Blocks,

With F. Brown's Patent Self-Oiler and with Babbitted Bearings.

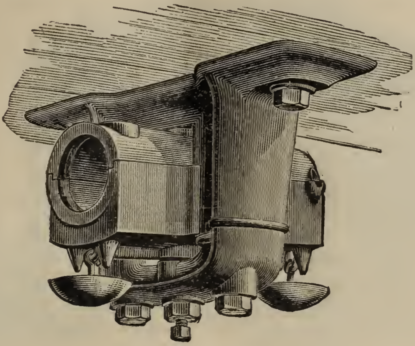


Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
$^{15}/_{16}$	$ 2 50	$2\ ^{15}/_{16}$	$ 12 50
$1\ ^{3}/_{16}$	3 00	$3\ ^{3}/_{16}$	15 00
$1\ ^{5}/_{16}$	3 50	$3\ ^{7}/_{16}$	19 00
$1\ ^{7}/_{16}$	4 00	$3\ ^{11}/_{16}$	23 50
$1\ ^{11}/_{16}$	4 50	$3\ ^{15}/_{16}$	29 00
$1\ ^{15}/_{16}$	5 00	$4\ ^{7}/_{16}$	36 00
$2\ ^{3}/_{16}$	6 00	$4\ ^{15}/_{16}$	46 00
$2\ ^{7}/_{16}$	8 00	$5\ ^{3}/_{8}$	60 00
$2\ ^{11}/_{16}$	10 50	$5\ ^{7}/_{8}$	75 00

For dimensions see table page 73.

Patent Adjustable Low-drop Hangers,

With F. Brown's Patent Self-Oiler and with Babbitted Bearings.

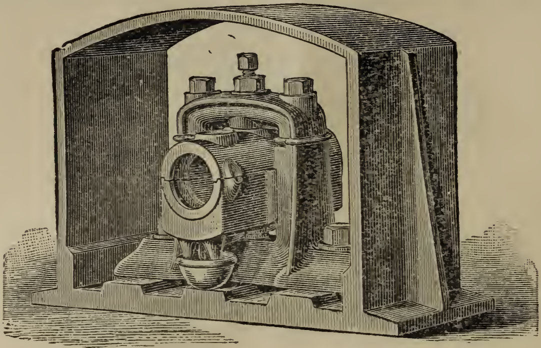


Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
$^{15}/_{16}$	$ 2 50	2 $^{15}/_{16}$	$12 50
1 $^{3}/_{16}$	3 00	3 $^{3}/_{16}$	15 00
1 $^{5}/_{16}$	3 50	3 $^{7}/_{16}$	19 00
1 $^{7}/_{16}$	4 00	3 $^{11}/_{16}$	23 50
1 $^{11}/_{16}$	4 50	3 $^{15}/_{16}$	29 00
1 $^{15}/_{16}$	5 00	4 $^{7}/_{16}$	36 00
2 $^{3}/_{16}$	6 00	4 $^{15}/_{16}$	46 00
2 $^{7}/_{16}$	8 00	5 $^{3}/_{8}$	60 00
2 $^{11}/_{16}$	10 50	5 $^{7}/_{8}$	75 00

FOR DIMENSIONS SEE TABLE PAGE 73.

WALL BOXES,

With Patent Adjustable Pillow Blocks, with F. Brown's Patent Self-Oiler and with Babbitted Bearings.



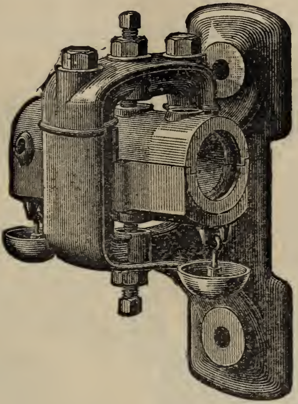
Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
15/16	$ 5 00	2 15/16	$23 00
1 3/16	5 50	3 3/16	27 50
1 5/16	6 00	3 7/16	31 50
1 7/16	6 75	3 11/16	36 75
1 11/16	7 00	3 15/16	41 50
1 15/16	8 00	4 7/16	53 25
2 3/16	9 50	4 15/16	72 50
2 7/16	13 50	5 3/8	91 00
2 11/16	20 50	5 7/8	114 00

For dimensions of the Pillow Block see table page 73.

Wall frames are made to suit locality.

Patent Adjustable Post-Stands,

With F. Brown's Patent Self-Oiler and with Babbitted Bearings.

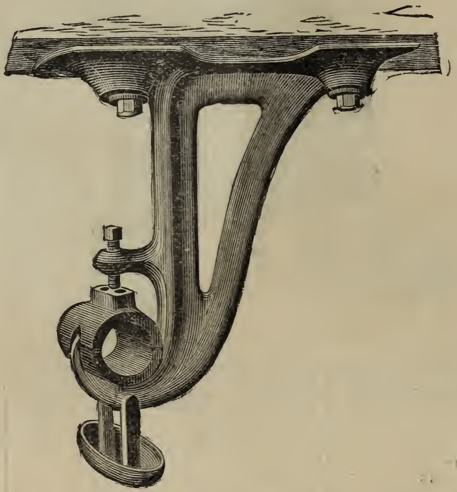


Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
15/16	$ 2 50	2 15/16	$12 75
1 3/16	3 00	3 3/16	15 50
1 5/16	3 50	3 7/16	20 00
1 7/16	4 00	3 11/16	25 00
1 11/16	4 50	3 15/16	32 50
1 15/16	5 25	4 7/16	40 00
2 3/16	6 50	4 15/16	50 00
2 7/16	8 50	5 3/8	65 00
2 11/16	11 25	5 7/8	80 00

FOR DEMENSIONS SEE TABLE PAGE 74.

PLAIN HANGERS.

With Babbitted Bearings.



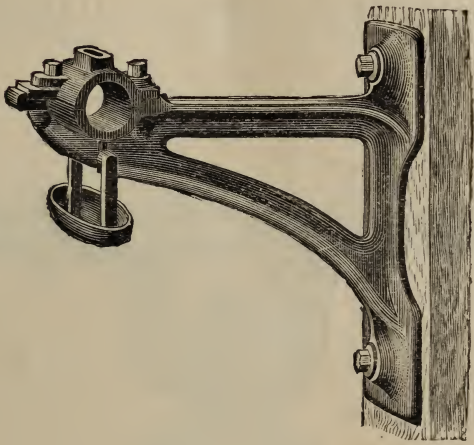
Diameter of Shaft.	$\frac{15}{16}$	$1\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{15}{16}$
6 in. Drop,	1 25	2 00	....	....	....	....	....	....	....
9 " "	....	2 25	2 50	2 75	3 50	4 25	....	....	....
12 " "	....	2 50	2 75	3 00	3 75	4 75	5 75	6 75	....
15 " "	....	....	3 00	3 25	4 25	5 25	6 25	7 25	9 75
18 " "	....	....	....	....	5 00	6 00	6 75	8 00	10 50
21 " "	....	....	....	....	....	....	7 25	8 75	11 25
27 " "	....	....	....	....	....	....	....	....	13 00

Shifter Arms from 50 Cents to $1.00 extra.

For Demensions see table page 75.

BRACKET HANGERS.

With Babbitted Bearings.

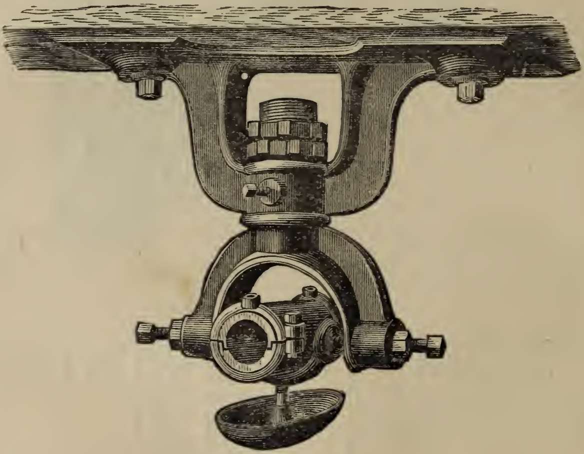


Diameter of Shaft.	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$4\frac{15}{16}$
9 inch distance from post	2 25	3 25	4 25	......	......	....
12 " " " "	2 75	3 75	4 75	5 75	6 75	30 00
15 " " " "	3 25	4 25	5 25	6 25	7 25	....
18 " " " "	......	......	......	6 75	8 75	....

For dimensions see table page 76.

ADJUSTABLE SWIVEL-HANGER.

With Babbitted Bearing.



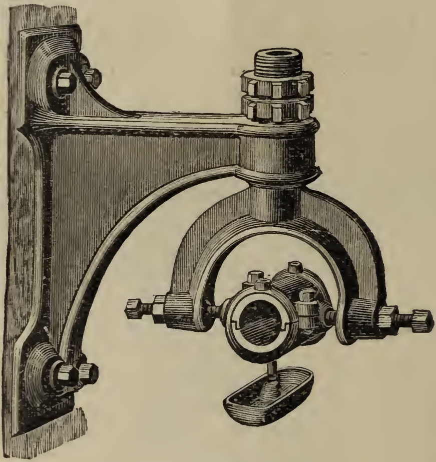
ADJUSTABLE SWIVEL HANGERS.

With Babbitted Bearings.

Diameter of Shaft.	$\frac{15}{16}$	$1\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$	$3\frac{3}{16}$	$3\frac{7}{16}$	$3\frac{15}{16}$	$4\frac{7}{16}$	$4\frac{15}{16}$
8 inch Drop.	2 75	3 25	3 75	....	....	....	....	....	....	....	....	....	....	....
9 “ “	....	....	4 25	4 75	6 00	....	....	....	....	....	....	....	....	....
12 “ “	....	....	4 75	5 25	6 50	7 75	9 75	....	....	....	....	....	....	....
14 “ “	....	....	5 00	5 50	6 75	8 25	10 25	12 25	14 75	....	....	....	....	....
16 “ “	....	....	5 25	5 75	7 25	8 75	10 75	13 25	15 75	....	....	....	....	....
18 “ “	....	....	5 75	6 25	7 50	9 25	11 25	13 75	16 50	19 25	25 00	....	....	....
20 “ “	....	....	6 00	6 50	8 00	9 75	11 75	14 50	17 25	20 25	26 50	....	....	....
22 “ “	....	....	....	....	....	....	12 25	15 00	17 75	20 75	27 00	....	....	....
24 “ “	....	....	....	....	....	....	....	....	....	....	....	32 75	41 50	52 00
26 “ “	....	....	....	....	....	....	13 25	16 25	19 25	22 50	28 75	....	....	....
28 “ “	....	....	....	....	....	....	14 00	17 00	20 25	23 50	30 00	....	....	....
30 “ “	....	....	....	....	....	....	14 75	17 75	21 25	24 50	31 50	....	....	....
32 “ “	....	....	....	....	....	....	15 50	18 50	22 25	25 50	33 00	....	....	....

ADJUSTABLE SWIVEL POST HANGERS.

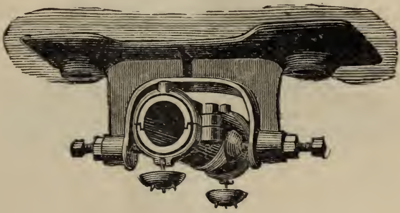
With Babbitted Bearings.



Diameter of Shaft.	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$
9 in. distance from Post,	4 25	4 75	6 00	7 00	9 00	11 75	.....
12 " " "	4 75	5 25	6 50	7 75	9 75	.....	.....
15 " " "	5 25	5 75	7 25	8 75	10 75	13 25	15 75
18 " " "	5 75	6 25	7 50	9 25	11 25	13 75	15 50

ADJUSTABLE LOW DROP HANGERS,

With Babbitted Bearings.

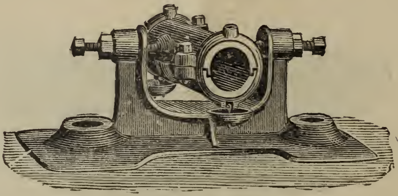


Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
$^{15}/_{16}$	$ 2 25	2 $^{15}/_{16}$	$10 50
1 $^{3}/_{16}$	2 75	3 $^{3}/_{16}$	12 50
1 $^{5}/_{16}$	3 00	3 $^{7}/_{16}$	17 00
1 $^{7}/_{16}$	3 50	3 $^{11}/_{16}$	20 00
1 $^{11}/_{16}$	3 75	3 $^{15}/_{16}$	22 25
1 $^{15}/_{16}$	4 50	4 $^{7}/_{16}$	30 00
2 $^{3}/_{16}$	5 25	4 $^{15}/_{16}$	40 00
2 $^{7}/_{16}$	7 00	5 $^{3}/_{8}$	50 00
2 $^{11}/_{16}$	9 00	5 $^{7}/_{8}$	60 00

FOR DIMENSIONS SEE TABLE PAGE 77.

Adjustable Low Drop Floor Stands

With Babbitted Bearings.

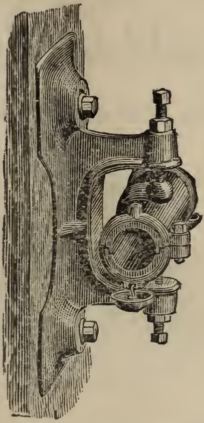


Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
$^{15}/_{16}$	$ 2 25	2 $^{15}/_{16}$	$10 50
1 $^{3}/_{16}$	2 75	3 $^{3}/_{16}$	12 50
1 $^{5}/_{16}$	3 00	3 $^{7}/_{16}$	17 00
1 $^{7}/_{16}$	3 50	3 $^{11}/_{16}$	20 00
1 $^{11}/_{16}$	3 75	3 $^{15}/_{16}$	22 25
1 $^{15}/_{16}$	4 50	4 $^{7}/_{16}$	30 00
2 $^{3}/_{16}$	5 25	4 $^{15}/_{16}$	40 00
2 $^{7}/_{16}$	7 00	5 $^{3}/_{8}$	50 00
2 $^{11}/_{16}$	9 00	5 $^{7}/_{8}$	60 00

For dimensions see table page 77.

ADJUSTABLE POST STANDS,

With Babbitted Bearings.

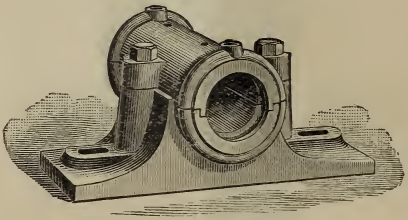


Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
$^{15}/_{16}$	$ 2 25	2 $^{15}/_{16}$	$10 50
1 $^{3}/_{16}$	2 75	3 $^{3}/_{16}$	12 50
1 $^{5}/_{16}$	3 00	3 $^{7}/_{16}$	17 00
1 $^{7}/_{16}$	3 50	3 $^{11}/_{16}$	20 00
1 $^{11}/_{16}$	3 75	3 $^{15}/_{16}$	22 25
1 $^{15}/_{16}$	4 50	4 $^{7}/_{16}$	30 00
2 $^{3}/_{16}$	5 25	4 $^{15}/_{16}$	40 00
2 $^{7}/_{16}$	7 00	5 $^{3}/_{8}$	50 00
2 $^{11}/_{16}$	9 00	5 $^{7}/_{8}$	60 00

FOR DIMENSIONS SEE TABLE PAGE 78.

JOURNAL BOXES,

With Babbitted Bearings.

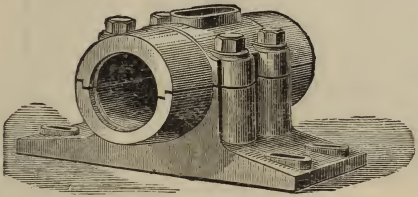


Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
15/16	2 00	1 15/16	4 50
1 3/16	2 40	2 3/16	5 70
1 5/16	2 75	2 7/16	7 00
1 7/16	3 00	2 11/16	8 30
1 11/16	3 35	2 15/16	9 80

FOR DIMENSIONS SEE TABLE PAGE 80.

RIGID PILLOW BLOCKS,

With Babitted Bearings.

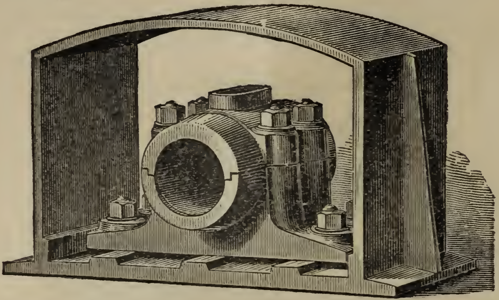


Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
$^{15}/_{16}$	$ 2 25	$2\ ^{15}/_{16}$	$11 25
$1\ ^{3}/_{16}$	2 75	$3\ ^{3}/_{16}$	13 00
$1\ ^{5}/_{16}$	3 00	$3\ ^{7}/_{16}$	16 00
$1\ ^{7}/_{16}$	3 25	$3\ ^{11}/_{16}$	17 50
$1\ ^{11}/_{16}$	3 75	$3\ ^{15}/_{16}$	20 00
$1\ ^{15}/_{16}$	5 00	$4\ ^{7}/_{16}$	28 75
$2\ ^{3}/_{16}$	6 25	$4\ ^{15}/_{16}$	36 50
$2\ ^{7}/_{16}$	7 50	$5\ ^{3}/_{8}$	44 75
$2\ ^{11}/_{16}$	9 00	$5\ ^{7}/_{8}$	55 75

FOR DIMENSIONS SEE TABLE PAGE 79.

Wall-Frames and Rigid Pillow Blocks

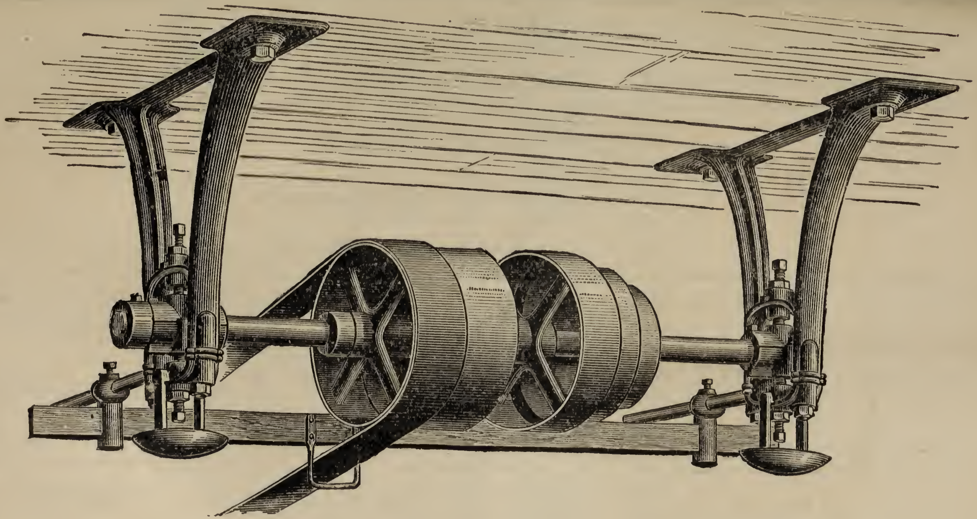
With Babitted Bearings.



Diameter of Shaft.	Price.	Diameter of Shaft.	Price.
$^{15}/_{16}$	$ 4 75	2 $^{15}/_{16}$	$21 75
1 $^{3}/_{16}$	5 25	3 $^{3}{}_{1}/_{6}$	25 75
1 $^{5}/_{16}$	5 50	3 $^{7}/_{16}$	28 50
1 $^{7}/_{16}$	5 75	3 $^{11}/_{16}$	31 75
1 $^{11}/_{16}$	6 25	3 $^{15}/_{16}$	36 00
1 $^{15}/_{16}$	8 00	4 $^{7}/_{16}$	46 00
2 $^{3}/_{16}$	9 25	4 $^{15}/_{16}$	63 00
2 $^{7}/_{16}$	13 00	5 $^{3}/_{8}$	78 75
2 $^{11}/_{16}$	19 50	5 $^{7}/_{8}$	100 00

For dimensions of the Pillowblock see table page 79.

Wall frames are made to suit locality.



COUNTERSHAFTS

For any size of belt, with adjustable, or with plain Hangers, furnished at very low rates.

STEEL SHAFTS.

POLISHED, KEYSEATED AND FITTED FOR OUR COUPLINGS.

Diameter.	$\frac{15}{16}$	$1\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$	$3\frac{3}{16}$	$3\frac{7}{16}$	$3\frac{15}{16}$	$4\frac{7}{16}$	$4\frac{15}{16}$	$5\frac{3}{8}$	$5\frac{7}{8}$
Price per foot..............	50	55	60	70	85	95	1 10	1 40	1 65	1 90	2 20	2 65	3 70	4 75	6 00	7 25	9 00
Extra charge for each Journal or Shoulder..............	50	55	60	70	85	95	1 00	1 10	1 25	1 40	1 50	1 65	1 75	2 00	2 25	2 50	3 00
**Extra charge* for Key-ways p. foot or within one foot in length	25	30	35	40	45	50	55	60	65	70	75	80	90	1 00	1 25	1 50	2 00

* Key-ways are charged only when not pertaining to our Couplings.

WROUGHT IRON COLLARS.

SET-SCREWED OR WITH OIL-HOLES.

Diameter of Shaft.	$\frac{15}{16}$	$1\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$	$3\frac{3}{16}$	$3\frac{7}{16}$	$3\frac{15}{16}$	$4\frac{7}{16}$	$4\frac{15}{16}$	$5\frac{3}{8}$	$5\frac{7}{8}$	
Price..............	50	60	70	1 00	1 20	1 50	1 85	2 20	2 50	2 85	3 15	3 50	4 15	4 80	5 45	6 00	7 50	Eac[illegible]

We draw your special attention

TO OUR

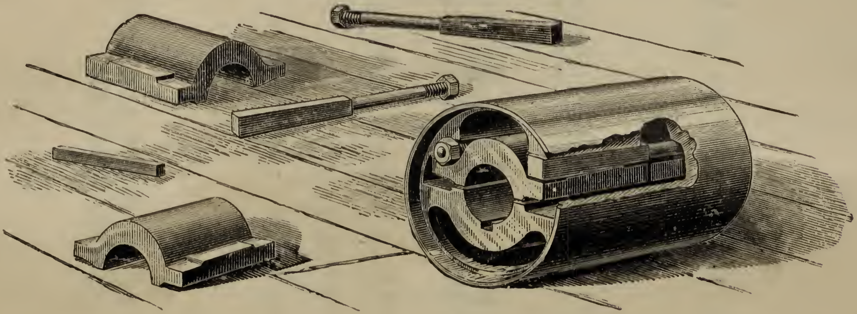
TURNED and HIGHLY POLISHED

STEEL SHAFTING

which is **accurate** in diameter, **perfectly** round, and **25% stronger** in tensile, or tortional strength, than wrought iron.

NOT to be identified with drawn steel!!!

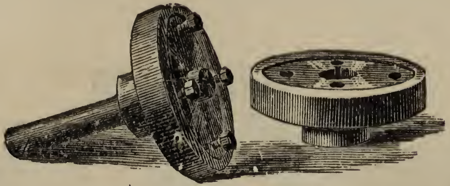
PATENT INTERNAL CLAMP COUPLINGS.



Diameter of Shaft.	$\frac{15}{16}$	$1\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{5}{16}$	$3\frac{3}{16}$	$3\frac{7}{16}$	$3\frac{15}{16}$	$4\frac{7}{16}$	$4\frac{15}{16}$	$5\frac{3}{8}$	$5\frac{7}{8}$
Price for each complete.	4 25	4 75	5 25	5 75	6 50	8 25	10 00	12 00	14 75	17 50	20 50	24 00	32 00	41 75	53 25	65 00	[illegible] 50

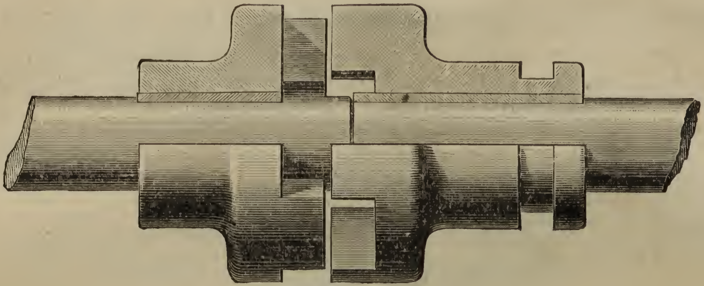
FLANGE-FACED COUPLINGS—WITH BOLTS.

Fitted and Keyed to Shafts.



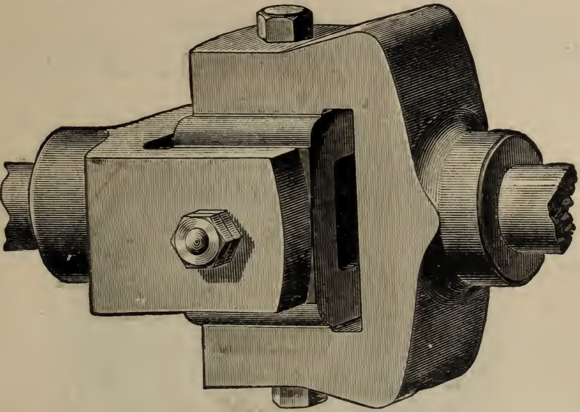
Diameter of Shaft.	15/16	1 3/16	1 5/16	1 7/16	1 11/16	1 15/16	2 3/16	2 7/16	2 11/16	2 15/16	3 3/16	3 7/16	3 15/16	4 7/16	4 15/16	5 3/8	5 7/8
Price per pair not fitted.	3 50	3 75	4 00	4 25	4 50	6 00	7 00	8 50	11 00	13 50	16 00	18 00	24 00	33 00	43 00	50 00	60 00
Price per pair fitted to Shaft.	6 50	6 75	7 00	7 25	7 50	9 00	10 50	12 50	15 50	18 50	22 00	25 00	32 50	42 00	53 50	63 50	77 00

JAW CLUTCH COUPLINGS.



Diameter of Shaft.	$\frac{15}{16}$	$1\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{11}{16}$	$1\frac{15}{16}$	$2\frac{3}{16}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{15}{16}$	$3\frac{3}{16}$	$3\frac{7}{16}$	$3\frac{15}{16}$
Price per pair not fitted	$ 6 50	7 00	7 50	8 00	9 00	11 25	14 25	18 50	22 75	26 50	30 00	39 00
Price per pair fitted to Shaft	$ 9 50	10 00	11 00	12 00	13 50	15 75	18 75	23 25	27 75	33 00	37 50	4[illegible] 75

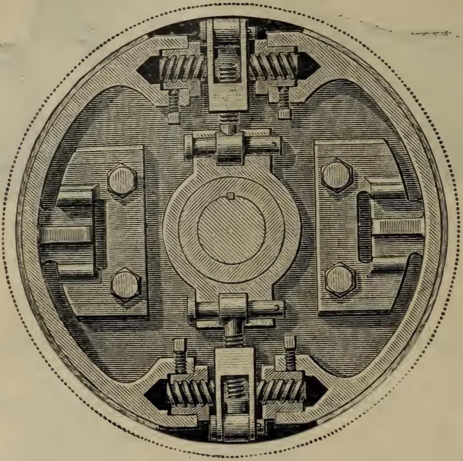
ANGLE COUPLING.

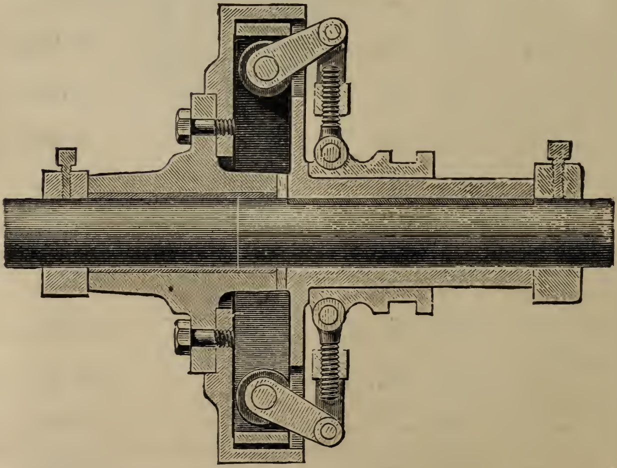


Warranted to work up to an angle of 25 degrees.

Diameter of Shaft.	Price.
$1\frac{15}{16}$ or 2 inch.	$55 00
$2\frac{3}{16}$ “ $2\frac{1}{4}$ “	60 00
$2\frac{7}{16}$ “ $2\frac{1}{2}$ “	65 00
$2\frac{11}{16}$ “ $2\frac{3}{4}$ “	70 00
$2\frac{15}{16}$ “ 3 “	75 00
$3\frac{3}{16}$ “ $3\frac{1}{4}$ “	85 00
$3\frac{7}{16}$ “ $3\frac{1}{2}$ “	100 00
$3\frac{15}{16}$ “ 4 “	135 00
$4\frac{7}{16}$ “ $4\frac{1}{2}$ “	170 00
$4\frac{15}{16}$ “ 5 “	215 00
$5\frac{7}{8}$ “ 6 “	275 00

F. BROWN'S
PATENT IMPROVED FRICTION CLUTCH COUPLING.





F. BROWN'S

PATENT FRICTION CLUTCH COUPLING.

Number of pattern.	Largest diameter of Shaft.	Power calculated at 100 revolutions per min.	Price.
12	2½ inches	20 horse	$75 00
15	3½ "	35 "	90 00
18	4 "	50 "	115 00
21	5 "	65 "	150 00
24	5 "	80 "	200 00
27	5½ "	95 "	235 00
30	5½ "	110 "	315 00
33	6 "	125 "	350 00
36	6 "	140 "	415 00
39	6½ "	155 "	480 00
42	6½ "	170 "	550 00
45	7 "	185 "	625 00
48	7 "	200 "	700 00

The cost of shipping levers is not included. These levers are of many fold design, according to local changes, so that we are unable to state the price unless we are familiar with all required details.

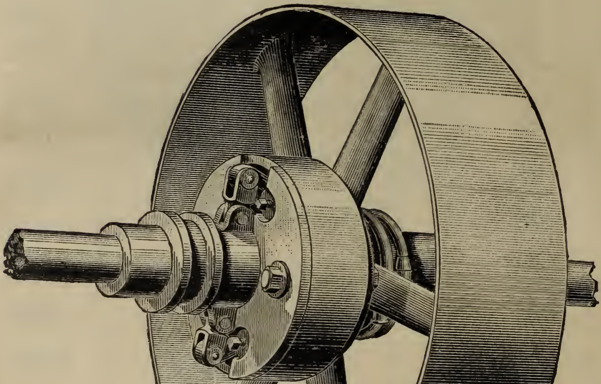
Every inquiry and every order relative to Friction Clutches should be explicit, stating the speed and the diameter of the shaft and the number of horse-power as near as possible.

This Friction Clutch is remarkable for its solid construction and durability.

It is offered to the public on its own merits, however numerous testimonials as to its efficiency are to our disposal.

We guarantee the satisfactorily working of same in all cases where we are fully acquainted with the nature of the work that they will be subjected to.

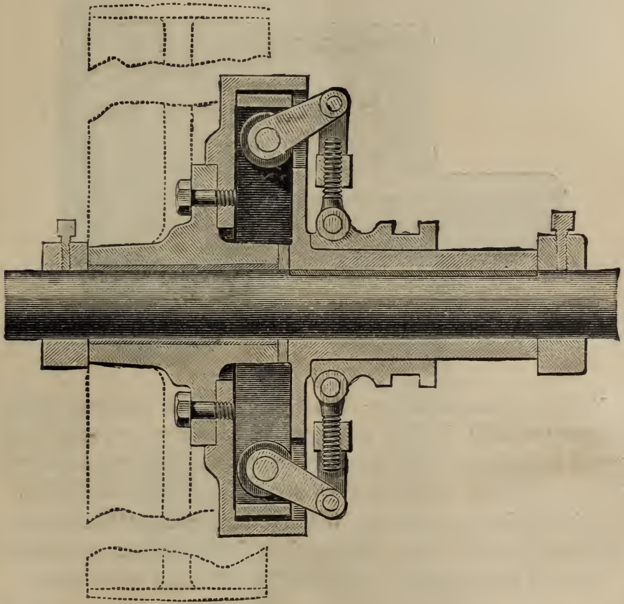
F. BROWN'S
PATENT
IMPROVED FRICTION CLUTCH PULLEY.



F. BROWN'S

PATENT

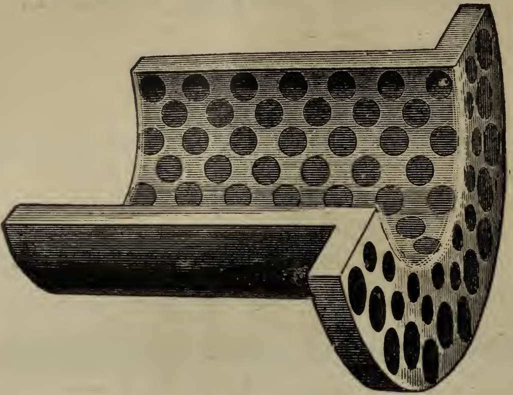
FRICTION CLUTCH PULLEY.



To ascertain the cost of a Friction Clutch Pulley take the price of a loose pulley for double-belt, either with loose bushing and Patent-bent-Oilers (see page 6), or with Metaline-bushings (see page 58), and add the cost of the corresponding Friction Clutch Coupling (see page 55).

The Friction Clutch Pulley consists of a special loose pulley in connection with the Friction Clutch. Consequently the pulley can be changed or replaced without removing the clutch. This is a money and time saving feature of great importance.

METALINE.



We are recommending Metaline Bushings for our Patent Friction Clutch *Pulleys* not only in places where extra high speed is required, but more so where, while the power is thrown off, the pulley is standing fixedly and the shaft is revolving.

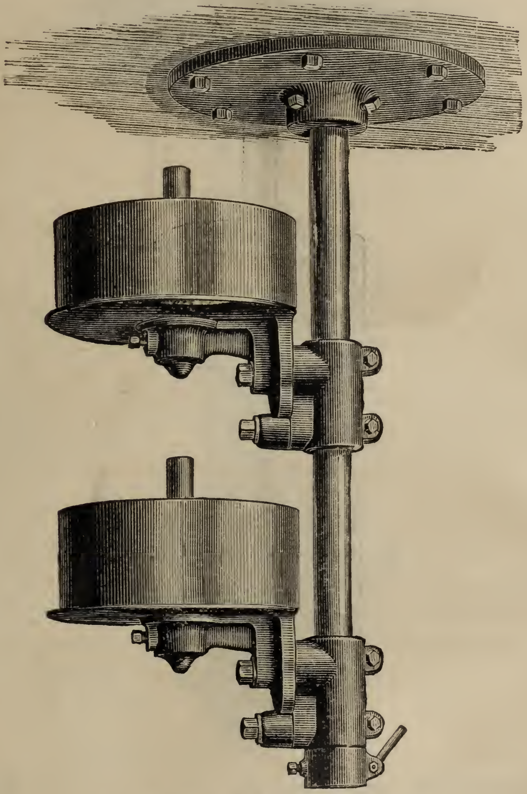
It is absolutely necessary for the preservation of the Metaline-lining to keep the same strictly free from any oily substance.

We will furnish such bushes at the following quotations:

For 2 inch shaft....	$7 50	For 3 ¾ inch shaft....	$26 50
" 2 ¼ " "	9 00	" 4 " "	32 00
" 2 ½ " "	10 25	" 4 ½ " "	37 00
" 2 ¾ " "	12 00	" 5 " "	45 00
" 3 " "	13 50	" 5 ½ " "	55 00
" 3 ¼ " "	17 25	" 6 " "	70 00
" 3 ½ " "	21 75	" 7 " "	85 00

The above prices are Net and cover the cost of a pair of divided bushes for one pulley.

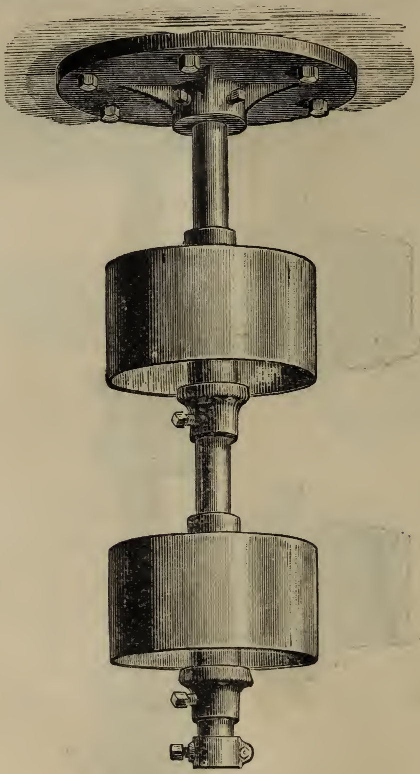
MULE PULLEY STAND.



ADJUSTABLE IN EVERY DIRECTION.

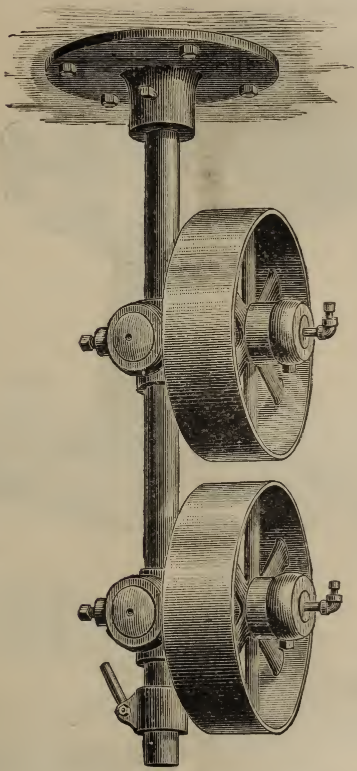
For 4 inch Belt with 2 Pulleys	$60 00
“ 5 “ “ “ 2 “	62 40
“ 6 “ “ “ 2 “	65 00
“ 7 “ “ “ 2 “	68 00
“ 8 “ “ “ 2 “	70 00
“ 10 “ “ “ 2 “	75 00
“ 12 “ “ “ 2 “	100 00

STATIONARY MULE STAND.



For 2 inch Belt, with 2 Pulleys	$22 50
“ 3 “ “ “ 2 “	25 00
“ 4 “ “ “ 2 “	30 00
“ 5 “ “ “ 2 “	32 00
“ 6 “ “ “ 2 “	35 00
“ 7 “ “ “ 2 “	40 00
“ 8 “ “ “ 2 “	45 00
“ 10 “ “ “ 2 “	55 00
“ 12 “ “ “ 2 “	65 00

BINDER FRAME.

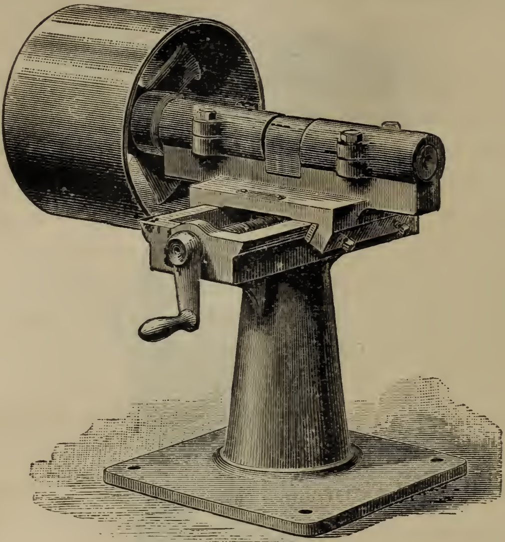


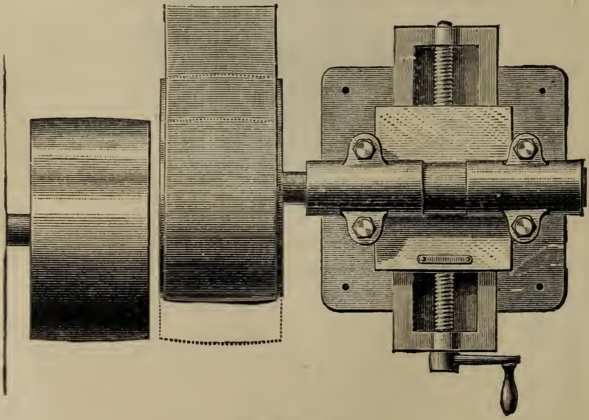
Adjustable in every Direction.

For	4	inch	Belt,	with	2	Pulleys	$45 00
“	5	“	“	“	2	“	46 50
“	6	“	“	“	2	“	48 00
“	7	“	“	“	2	“	50 00
“	8	“	“	“	2	“	55 00
“	10	“	“	“	2	“	60 00
“	12	“	“	“	2	“	75 00

PATENT PULLEY STAND,

TO TAKE THE PLACE OF LOOSE PULLEYS.





TOP VIEW.

PATENT PULLEY STAND,

TO TAKE THE PLACE OF LOOSE PULLEYS.

This contrivance is a substitute for loose pulleys in such cases where the driven pulley of the machine is fastened to the end of the shaft (overhanging); as for instance on Electro-Dynamo-machines, a. s. f.

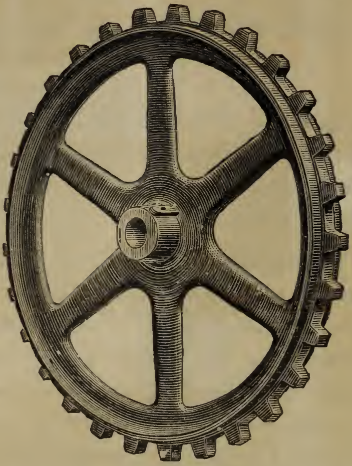
The pulley on the above Patent Pulley Stand is a tight pulley, fastened to a shaft, which is freely revolving in self-oiling bearings, Instead of shifting the belt from the driven on to a loose pulley, the belt is shifted on to the pulley of the Patent Pulley Stand, and by means of a moveable slide operated by a hand-crank, as shown in the cut, the belt is slacked to any desired extend, thus releaving the same entirely while the machine is idle.

In ordering such Patent Pulley Stands it is essential to state the exact diameter and width of face of the driven pulley, and the distance from the centre of its shaft to the floor.

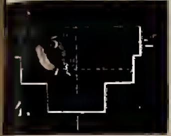
PRICES:

For 4 inch Belt	$70 00
“ 5 “ “	72 50
“ 6 “ “	75 00
“ 8 “ “	85 00
“ 10 “ “	100 00
“ 12 “ “	125 00

SPROCKET OR CHAIN WHEELS.



Number of Chain.	Diameter.	Price.	Number of Chain.	Diameter.	Price.
32	4 inch	$1 00	57, 67 and 77	12 inch	$3 50
32	8 "	2 00	57, 67 and 77	14 "	4 25
35 and 45	6 "	1 50	57, 67 and 77	18 "	5 50
35 and 45	8 "	2 00	57, 67 and 77	20 "	6 00
35 and 45	8½ "	2 25	57, 67 and 77	24 "	7 25
35 and 45	16 "	4 00	57, 67 and 77	36 "	9 00
35 and 45	13 "	4 50	75, 78 and 88	16 "	5 00
35 and 45	30 "	7 50	75, 73 and 88	18 "	5 50
35 and 45	36 "	9 00	75, 78 and 88	24 "	7 50
57, 67 and 77	6 "	1 50	75, 78 and 88	30 "	9 50
57, 67 and 77	8 "	2 50	103	6 "	2 00
57, 67 and 77	10 "	3 00	103	30 "	10 00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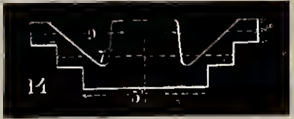
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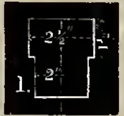
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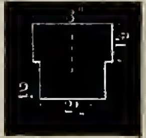
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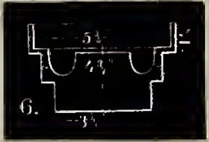
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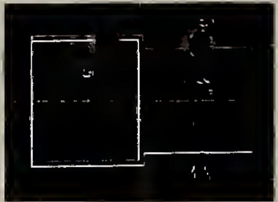

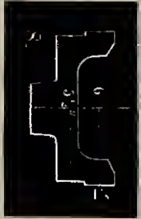
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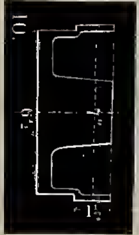
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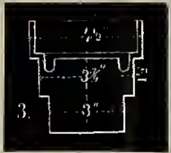
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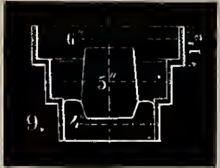
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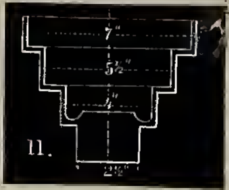
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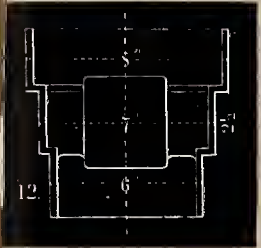
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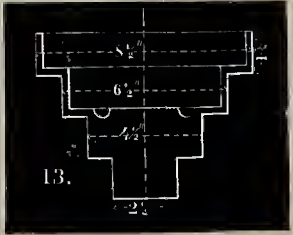
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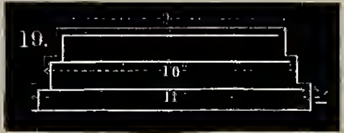
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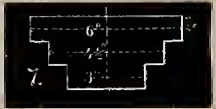
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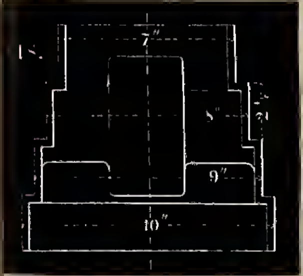
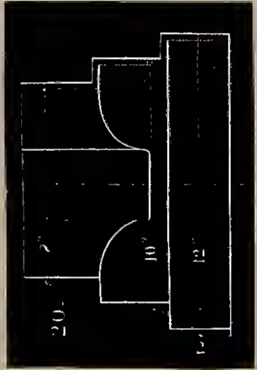

18.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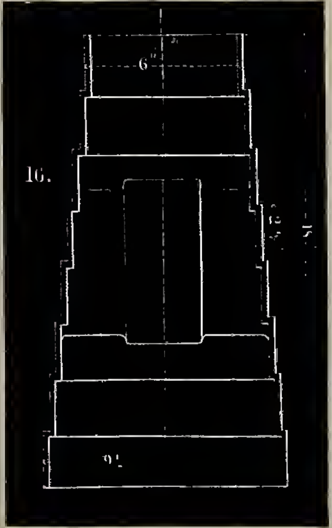
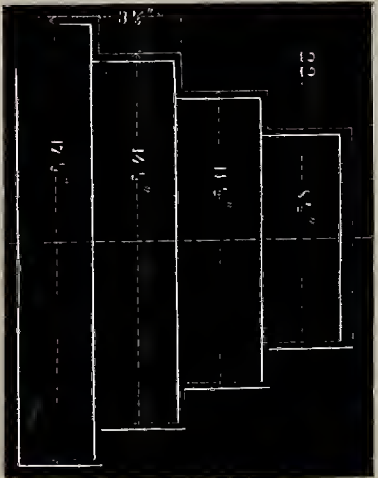

16.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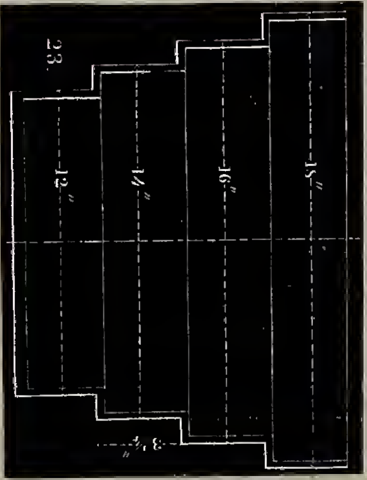
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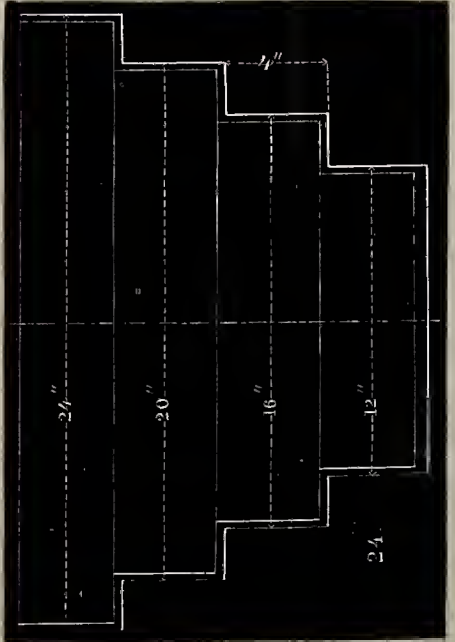
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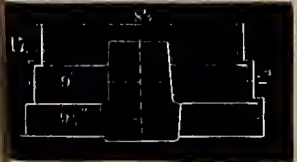
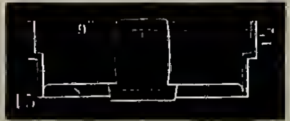
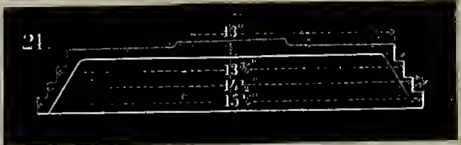

17.


15.


21.

CONES.

We have the following patterns on hand, and we shall increase their number to satisfy every reasonable demand :

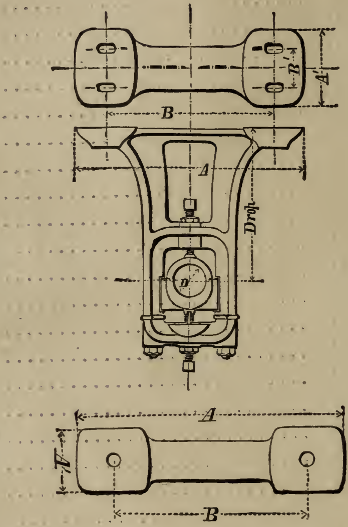
No. 1,	two	speeds	$4 00	each.
“ 2,	two	“	4 50	“
“ 3,	three	“	6 00	“
“ 4,	three	“	6 00	“
“ 5,	two	“	5 50	“
“ 6,	three	“	7 00	“
“ 7,	three	“	7 00	“
“ 8,	three	“	7 00	“
“ 9,	three	“	9 00	“
“ 10,	two	“	7 00	“
“ 11,	four	“	11 00	“
“ 12,	three	“	11 00	“
“ 13,	four	“	12 50	“
“ 14,	three	“	9 00	“
“ 15,	two	“	9 00	“
“ 16,	eight	“	30 00	“
“ 17,	three	“	13 50	“
“ 18,	four	“	15 50	“
“ 19,	three	“	10 00	“
“ 20,	three	“	14 50	“
“ 21,	four	“	12 50	“
“ 22,	four	“	20 00	“
“ 23,	four	“	20 00	“
“ 24,	four	“	25 00	“

See illustrated table.

TABLE OF DIMENSIONS

—FOR—

Double-braced adjustable
HANGERS AND FLOORSTANDS.



For List of Prices see pages 29 and 31.

Diameter of Shaft.	Distance from Centre of Shaft to base.	Length of Bearing.	Base.		Distance between Bolts.		Diam. of Bolts.	Number of Bolts.
			A	**A^1**	**B**	**B^1**		
$\frac{15}{16}$ or 1 inch.	6	4	10¾	3¾	6¼	......		2
	7½	4	11	3¾	6½	......		2
	9	4	11½	3¾	7	......		2
	12	4	12¾	3¾	8¼	......		2
	15	4	15	3¾	10½	......		2

Diameter of Shaft.	Distance from Centre of Shaft to base.	Length of Bearing.	Base.		Distance between Bolts.		Diam. of Bolts.	Number of Bolts.
			A	A1	B	B1		
$1\frac{3}{16}$ or $1\frac{1}{4}$ inch.	6	5	11¾	4	7¼	......	½	2
	7½	5	12	4	7¼	......	½	2
	9	5	12¼	4	7½	......	½	2
	12	5	13	4	8½	......	½	2
	15	5	15¼	4	10½	......	½	2
$1\frac{7}{16}$ or $1\frac{1}{2}$ inch.	6	6	12¾	4	8	......	⅝	2
	7½	6	12¾	4	8	......	⅝	2
	9	6	12¾	4	8	......	⅝	2
	12	6	13¼	4¼	8½	......	⅝	2
	15	6	13¾	4½	9	......	⅝	2
	18	6	15¼	4¾	10½	......	⅝	2
	21	6	17¾	5	13	......	⅝	2
$1\frac{11}{16}$ or $1\frac{3}{4}$ inch.	9	7	14¼	4½	9	......	¾	2
	12	7	14¾	4¾	9½	......	¾	2
	15	7	15¼	5	10	......	¾	2
	18	7	16½	5¼	11¼	......	¾	2
	21	7	18½	5½	13¼	......	¾	2

TABLE OF DIMENSIONS.—*Continued.*

Diameter of Shaft.	Distance from Centre of Shaft to base.	Length of Bearing.	Base.		Distance between Bolts.		Diam. of Bolts.	Number of Bolts.
			A	**A**^{1}	**B**	**B**^{1}		
1 15/16 or 2 inch.	9	8	15¾	5	10	……	¾	2
	12	8	16¼	5¼	10½	……	¾	2
	15	8	16¾	5½	11	……	¾	2
	18	8	17¾	5½	12	……	¾	2
	21	8	19¼	5¾	13½	……	¾	2
	24	8	21¾	6	16	……	¾	2
2 3/16 or 2¼ inch.	9	9	16½	5½	10¾	……	¾	2
	12	9	17½	5¾	11½	……	¾	2
	15	9	18	6	12	……	¾	2
	18	9	19¼	8¼	13	3½	¾	4
	21	9	20¾	8½	14½	3½	¾	4
	24	9	22¾	8¾	16¼	3½	¾	4
2 7/16 or 2½ inch.	9	10	17½	6	11½	……	⅞	2
	12	10	18½	6½	12	……	⅞	2
	15	10	19¾	7	13	……	⅞	2
	18	10	20¾	9	14	3½	⅞	4
	21	10	22	9¼	15	3½	⅞	4
	24	10	23¾	9½	16½	3½	⅞	4
	27	10	25¼	9¾	18	3½	⅞	4
	30	10	27½	10	20	3½	⅞	4
	33	10	30¾	10	23	3½	⅞	4
	36	10	34¾	10	27	3½	⅞	4

TABLE OF DIMENSIONS.—*Continued.*

Diameter of Shaft.	Distance from Centre of Shaft to base.	Length of Bearing.	Base.		Distance between Bolts.		Diam. of Bolts.	Number of Bolts.
			A	A^1	B	B^1		
2 11/16 or 2 3/4 inch.	9	11	19	6½	12½	......	1	2
	12	11	19½	7	12¾	......	1	2
	15	11	20¾	7½	13¾	......	1	2
	18	11	21¾	9½	14¾	3¾	⅞	4
	21	11	23	9¾	15¾	3¾	⅞	4
	24	11	24½	10	17	3¾	⅞	4
	27	11	26¼	10¼	18½	3¾	⅞	4
	30	11	28½	10½	20½	3¾	⅞	4
	33	11	31½	10⅝	23½	3¾	⅞	4
	36	11	36	10¾	27¾	3¾	⅞	4
2 15/16 or 3 inch.	9	12	20½	7	13¼	......	1	2
	12	12	20¾	7½	13½	......	1	2
	15	12	22	8	14½	......	1	2
	18	12	23	10	15½	4	1	4
	21	12	24¼	10¼	16½	4	1	4
	24	12	25¾	10½	17¾	4	1	4
	27	12	27½	10¾	19¼	4	1	4
	30	12	29½	11	21	4	1	4
	33	12	32½	11¼	24	4	1	4
	36	12	37½	11½	28½	4	1	4

TABLE OF DIMENSIONS.—*Continued.*

Diameter of Shaft.	Distance from Centre of Shaft to base.	Length of Bearing.	Base.		Distance between Bolts.		Diam. of Bolts.	Number of Bolts.
			A	**A**1	**B**	**B**1		
$3\frac{3}{16}$ or $3\frac{1}{4}$ inch.	12	13	21¼	7½	14	......	1	2
	15	13	22½	8¼	14¾	......	1	2
	18	13	23½	10½	15¾	4¼	1	4
	21	13	24¾	10¾	16¾	4¼	1	4
	24	13	26¼	11	18¼	4¼	1	4
	27	13	28	11¼	19¾	4¼	1	4
	30	13	30	11½	21¾	4¼	1	4
	33	13	33	11¾	24½	4¼	1	4
	36	13	38	11¾	29¼	4¼	1	4
$3\frac{7}{16}$ or $3\frac{1}{2}$ inch.	12	14	22	7½	14½	......	1	2
	15	14	23	8½	15¼	......	1	2
	18	14	24	11	16	4½	1	4
	21	14	25¼	11¼	17¼	4½	1	4
	24	14	27	11½	18¾	4½	1	4
	27	14	28¾	11¾	20½	4½	1	4
	30	14	31	12	22½	4½	1	4
	33	14	33¾	12	25¼	4½	1	4
	36	14	39	12	30	4½	1	4

TABLE OF DIMENSIONS.—*Continued.*

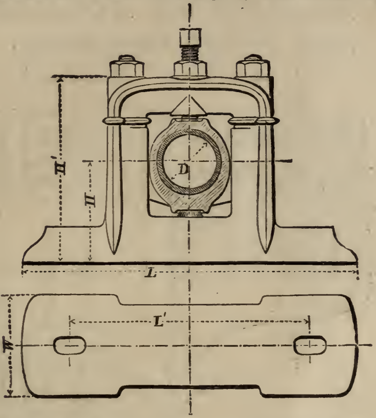
Diameter of Shaft.	Distance from Centre of Shaft to base.	Length of Bearing.	Base.		Distance between Bolts.		Diam. of Bolts.	Number of Bolts.
			A	A^1	B	B^1		
3 15/16 or 4 inch.	12	15	25¼	11½	17	4½	1⅛	4
	15	15	26	11¾	17½	4½	1⅛	4
	18	15	27¼	11¾	18½	4½	1⅛	4
	21	15	28¼	12	19½	4½	1⅛	4
	24	15	30	12	21	4½	1⅛	4
	27	15	31½	12¼	22½	4½	1⅛	4
	30	15	33¾	12¼	24½	4½	1⅛	4
	33	15	36¾	12½	27½	4½	1⅛	4
	36	15	41½	12½	32	4½	1⅛	4
4 7/16 or 4½ inch.	18	16	31	12	22	5	1⅛	4
	21	16	31	12¼	23	5	1⅛	4
	24	16	33	12¼	24	5	1⅛	4
	27	16	34½	12½	25	5	1⅛	4
	30	16	36½	12½	27	5	1⅛	4
	33	16	39	12⅞	29	5	1⅛	4
	36	16	42	12⅞	32	5	1⅛	4

TABLE OF DIMENSIONS.—*Continued.*

Diameter of Shaft.	Distance from Centre of Shaft to base.	Length of Bearing.	Base.		Distance between Bolts.		Diam. of Bolts.	Number of Bolts.
			A	**A^1**	**B**	**B^1**		
4 15/16 or 5 inch.	18	17	34½	12¼	26	5½	1¼	4
	21	17	35	12½	26½	5½	1¼	4
	24	17	36	12½	27	5½	1¼	4
	27	17	37½	12¾	28	5½	1¼	4
	30	17	39	12¾	29½	5½	1¼	4
	33	17	41	13¼	31	5½	1¼	4
	36	17	43	13¼	33	5½	1¼	4
5⅜ or 5½ inch.	21	18	37	12½	26¾	6	1¼	4
	24	18	38	12½	27½	6	1¼	4
	27	18	39¾	13	28½	6	1¼	4
	30	18	41½	13	29¾	6	1¼	4
	33	18	43½	13½	31½	6	1¼	4
	36	18	45	13½	33½	6	1¼	4
5⅞ or 6 inch.	21	19	39	12½	27	7	1½	4
	24	19	40	13	28	7	1½	4
	27	19	42	13½	29	7	1½	4
	30	19	44	13½	30	7	1½	4
	33	19	46	14	32	7	1½	4
	36	19	48	14	34	7	1½	4

TABLE OF DIMENSIONS

for Patent Adjustable Pillow Blocks, with Patent Self-Oilers, and for Patent Adjustable Low-drop-Hangers, with Patent Self-Oilers.



For list of prices see pages 32 and 33.

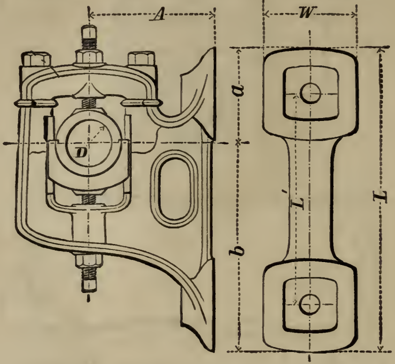
Diameter of Shaft.	Distance from Centre of Shaft to Base.	Length of Bearing.	Base		Holding down Bolts.		Number of Bolts.
			L	W	L1	Diam. of Bolts.	
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	
$\frac{15}{16}$	2	4	7	2	5	$\frac{3}{8}$	2
$1\frac{3}{16}$	$2\frac{3}{4}$	5	$8\frac{1}{2}$	$2\frac{1}{2}$	6	$\frac{7}{16}$	2
$1\frac{5}{16}$	$2\frac{3}{4}$	6	$8\frac{1}{2}$	$2\frac{1}{2}$	6	$\frac{7}{16}$	2
$1\frac{7}{16}$	$3\frac{1}{4}$	6	10	$2\frac{7}{8}$	7	$\frac{1}{2}$	2
$1\frac{11}{16}$	$3\frac{7}{8}$	7	$11\frac{1}{4}$	$3\frac{3}{8}$	8	$\frac{9}{16}$	2
$1\frac{15}{16}$	$4\frac{1}{4}$	8	13	$3\frac{3}{4}$	9	$\frac{5}{8}$	2
$2\frac{3}{16}$	$4\frac{7}{8}$	9	$14\frac{1}{4}$	$4\frac{1}{4}$	10	$\frac{5}{8}$	2
$2\frac{7}{16}$	$5\frac{1}{4}$	10	$15\frac{1}{2}$	$4\frac{5}{8}$	11	$\frac{3}{4}$	2
$2\frac{11}{16}$	$5\frac{1}{2}$	11	$16\frac{3}{4}$	5	12	$\frac{3}{4}$	2
$2\frac{15}{16}$	6	12	18	$5\frac{1}{2}$	13	$\frac{7}{8}$	2
$3\frac{3}{16}$	. . .	. .	. . .	. . .	. . .	. .	2
$3\frac{7}{16}$	7	14	21	$6\frac{1}{4}$	15	1	2
$3\frac{11}{16}$	. . .	. .	. . .	. . .	. . .	. .	2
$3\frac{15}{16}$	$7\frac{7}{8}$	15	24	7	17	$1\frac{1}{8}$	2
$4\frac{7}{16}$	9	16	26	$7\frac{7}{8}$	$18\frac{3}{4}$	$1\frac{1}{4}$	2
$4\frac{15}{16}$	10	17	$29\frac{1}{2}$	$8\frac{3}{4}$	$20\frac{1}{2}$	$1\frac{1}{4}$	2
$5\frac{3}{8}$	. . .	. .	. . .	. . .	. . .	. .	2
$5\frac{7}{8}$	$11\frac{1}{2}$	19	35	$10\frac{1}{4}$	24	$1\frac{1}{2}$	2
$6\frac{7}{8}$	$13\frac{1}{2}$	21	$40\frac{1}{2}$	12	28	$1\frac{3}{4}$	2

TABLE OF DIMENSIONS

—FOR—

Patent Adjustable Post-Hangers,

WITH PATENT SELF-OILERS.



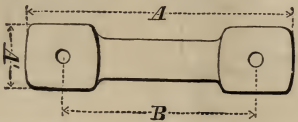
For List of Prices see page 35.

Diameter of Shaft.	A	Length of Bearing.	Base.		Holding down Bolts.		Number of Bolts.
			L	W	L1	Diam. of Bolts.	
$\frac{15}{16}$	$3\frac{3}{8}$ inch	4 inch	$8\frac{1}{2}$ inch	$2\frac{1}{2}$ inch	6	$\frac{1}{2}$ inch	2
$1\frac{3}{16}$	4 "	5 "	$9\frac{7}{8}$ "	3 "	$6\frac{7}{8}$	$\frac{1}{2}$ "	2
$1\frac{5}{16}$	......	......	....	....	...	$\frac{5}{8}$ "	2
$1\frac{7}{16}$	$4\frac{5}{8}$ "	6 "	$11\frac{1}{2}$ "	$3\frac{3}{4}$ "	$7\frac{3}{4}$	$\frac{5}{8}$ "	2
$1\frac{11}{16}$	......	......	....	....	...	$\frac{5}{8}$ "	2
$1\frac{15}{16}$	$5\frac{1}{2}$ "	8 "	$13\frac{1}{2}$ "	$4\frac{1}{2}$ "	9	$\frac{3}{4}$ "	2
$2\frac{3}{16}$	......	......	....	....	...	$\frac{3}{4}$ "	2
$2\frac{7}{16}$	$6\frac{3}{4}$ "	10 "	$16\frac{1}{4}$ "	5 "	$11\frac{1}{4}$	$\frac{7}{8}$ "	2
$2\frac{11}{16}$	......	......	....	....	...	$\frac{7}{8}$ "	2
$2\frac{15}{16}$	8 "	12 "	$19\frac{3}{4}$ "	6 "	$13\frac{3}{4}$	1 "	2
$3\frac{3}{16}$	......	......	....	....	...	1 "	2
$3\frac{7}{16}$	$9\frac{1}{2}$ "	14 "	$23\frac{1}{4}$ "	7 "	$16\frac{1}{4}$	1 "	2
$3\frac{11}{16}$	$10\frac{3}{4}$ "	15 "	$26\frac{1}{2}$ "	8 "	$18\frac{1}{2}$	$1\frac{1}{8}$ "	2
$3\frac{15}{16}$	......	......	....	....	...	$1\frac{1}{8}$ "	2
$4\frac{7}{16}$	......	......	....	....	...	$1\frac{1}{4}$ "	2
$4\frac{15}{16}$	13 "	17 "	33 "	10 "	23	$1\frac{1}{4}$ "	2
$5\frac{3}{8}$	......	......	....	....	...	$1\frac{1}{2}$ "	2
$5\frac{7}{8}$	15 "	19 "	39 "	12 "	27	$1\frac{1}{2}$ "	2

TABLE OF DIMENSIONS

—FOR—

PLAIN HANGERS.



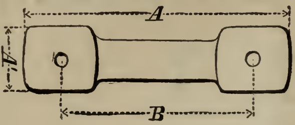
For list of prices see page 36.

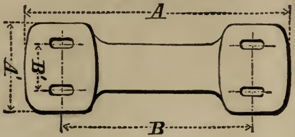
Diameter of Shaft.	Distance from Centre of Shaft to Base.	Length of Bearing.	Base.		Holding down Bolts.		Number of Bolts.
			A	**A1**	**B**	Diameter of Bolts.	
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	
15/16	6	2½	9	2¾	5½	½	2
1 3/16	6	3	9	2¾	5½	½	2
	9	4½	15½	4½	10½	½	2
	12	4¾	16½	4¼	11½	½	2
1 5/16	9	5	15½	4½	10½	⅝	2
	12	4½	16½	4¼	11½	⅝	2
	15	4¾	18½	5¼	12¾	⅝	2
1 7/16	9	5	15½	4½	10½	⅝	2
	12	4½	16½	4¼	11½	⅝	2
	15	4¾	18½	5¼	12¾	⅝	2
1 11/16	9	5	15½	4½	10⅔	¾	2
	12	5	17	4½	11 4/3	¾	2
	15	4¾	18½	5¼	12¾	¾	2
1 15/16	9	5	16½	5	10¾	¾	2
	12	5¼	17½	5	11½	¾	2
	15	5¼	18½	5¼	13	¾	2
2 3/16	12	6	17½	5	11½	⅞	2
	15	6¼	21	6	14	⅞	2
	18	6¼	21½	6	15	⅞	2
	21	6¼	22	7¾	16	⅞	2
2 7/16	12	6¼	18	7	12	⅞	2
	15	6¼	21	6	14	⅞	2
	18	6¼	21½	6	14¾	⅞	2
	21	6¼	22	7¾	16	⅞	2

TABLE OF DIMENSIONS

—FOR—

BRACKET HANGERS.





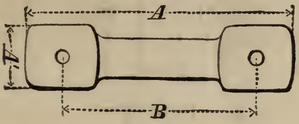
For list of prices see page 37.

Diam. of Shaft.	Distance from Wall or Post to Centre of Shaft	Length of Bearing.	Base.		Holding Bolts.		Diam. of Bolts.	Number of Bolts.
			A	A¹	B	B¹		
Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	
$1\frac{7}{16}$	9	5	16	$4\frac{1}{4}$	$10\frac{1}{2}$		$\frac{5}{8}$	2
	12	5	$17\frac{1}{2}$	$4\frac{3}{4}$	$11\frac{1}{2}$		$\frac{5}{8}$	2
	15	$4\frac{3}{4}$	$19\frac{3}{4}$	$4\frac{3}{4}$	$13\frac{3}{4}$		$\frac{5}{8}$	2
$1\frac{11}{16}$	9	5	16	$4\frac{1}{4}$	$10\frac{1}{2}$		$\frac{3}{4}$	2
	12	5	$17\frac{1}{2}$	$4\frac{3}{4}$	$11\frac{1}{2}$		$\frac{3}{4}$	2
	15	$4\frac{3}{4}$	$19\frac{3}{4}$	$4\frac{3}{4}$	$13\frac{3}{4}$		$\frac{3}{4}$	2
$1\frac{15}{16}$	9	5	16	$4\frac{1}{4}$	$10\frac{1}{2}$		$\frac{3}{4}$	2
	12	5	$17\frac{1}{2}$	$4\frac{3}{4}$	$11\frac{1}{2}$		$\frac{3}{4}$	2
	15	$5\frac{1}{2}$	22	$5\frac{1}{2}$	15		$\frac{3}{4}$	2
$2\frac{3}{16}$	12	$6\frac{1}{4}$	$20\frac{1}{2}$	$6\frac{1}{4}$	13		$\frac{7}{8}$	2
	15	$5\frac{1}{2}$	22	$5\frac{1}{2}$	15		$\frac{7}{8}$	2
	18	$6\frac{1}{4}$	28	8	20		$\frac{7}{8}$	2
$2\frac{7}{16}$	12	$6\frac{1}{4}$	$20\frac{1}{2}$	$6\frac{1}{4}$	13		$\frac{7}{8}$	2
	15	6	$23\frac{1}{2}$	6	$15\frac{3}{4}$		$\frac{7}{8}$	2
	18	$6\frac{1}{4}$	28	8	20		$\frac{7}{8}$	2
$4\frac{15}{16}$	12	10	23	$14\frac{3}{4}$	15	9	$1\frac{1}{4}$	4

TABLE OF DIMENSIONS

—FOR—

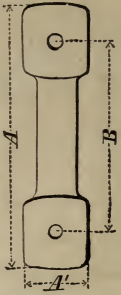
ADJUSTABLE LOW DROP HANGERS AND FLOOR STANDS.



For list of prices see pages 41 and 42.

Diameter of Shaft.	Distance from Centre of Shaft to Base.	Length of Bearing.	Base.		Holding down Bolts.		Number of Bolts.
			A	A 1	B	Diameter of Bolts.	
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	
15/16	4	4½	12	3½	8¼	½	2
1 3/16	4	5	12	3½	8¼	½	2
1 5/16	4¾	5¾	13¾	4	9¾	⅝	2
1 7/16	4¾	5¾	13¾	4	9¾	⅝	2
1 11/16	4¾	6¼	13¾	4	9¾	⅝	2
1 15/16	5½	7¼	15½	4¾	11	¾	2
2 3/16	5½	8	15½	4¾	11	¾	2
2 7/16	7	8½	18¼	4¾	13¼	⅞	2
2 11/16	7	10	18¼	4¾	13¼	⅞	2
2 15/16	7¼	10½	21½	5½	15¾	1	2
3 3/16	7¼	11½	21½	5½	15¾	1	2
3 7/16	7¾	12¼	24	6¼	17¾	1	2
3 11/16	10	13	29	9	20	1⅛	2
3 15/16	10	13	29	9	20	1⅛	2
4 7/16	10	14	29	9	20	1¼	2
4 15/16	11	14	33½	10	23½	1¼	2
5⅜	....	....	....	....	......	1½	2
5⅞	....	....	....	....	......	1½	2

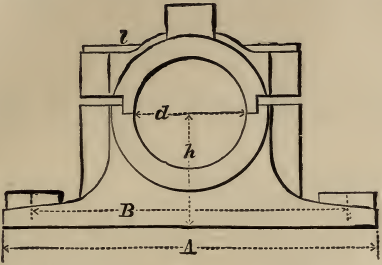
TABLE OF DIMENSIONS
FOR
ADJUSTABLE POST-HANGERS.

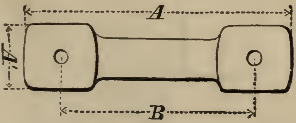


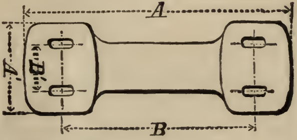
For list of prices see page 43.

Diameter of Shaft.	Dist. from Centre of Shaft to Wall or Post.	Length of Bearing	Base.		Holding-down Bolts.		Number of Bolts.
			A	A^1	B	Diameter of Bolts.	
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	
15/16	4	4½	12	3½	8¼	½	2
1 3/16	4	5	12	3½	8¼	½	2
1 5/16	4¾	5¾	13¾	4	9¾	⅝	2
1 7/16	4¾	5¾	13¾	4	9¾	⅝	2
1 11/16	4¾	6¼	13¾	4	9¾	⅝	2
1 15/16	5½	7¼	15½	4¾	11	¾	2
2 3/16	5½	8	15½	4¾	11	¾	2
2 7/16	7	8½	18¼	4¾	13¼	⅞	2
2 11/16	7	10	18¼	4¾	13¼	⅞	2
2 15/16	7¼	10½	21½	5½	15¾	1	2
3 3/16	7¼	11½	21½	5½	15¾	1	2
3 7/16	7¾	12¼	24	6¼	17¾	1	2
3 11/16	10	13	29	9	20	1⅛	2
3 15/16	10	13	29	9	20	1⅛	2
4 7/16	10	14	29	9	20	1¼	2
4 15/16	11	14	33½	10	23½	1¼	2
5⅜	....	....	....	....	.....	1½	2
5⅞	....	....	....	....	.....	1½	2

TABLE OF DIMENSIONS
—FOR—
RIGID PILLOW BLOCKS.







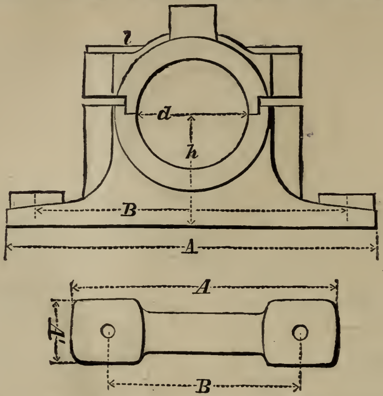
For list of prices see pages 44 and 46.

Diameter of Shaft.	Distance from Centre of Shaft to Base.	Length of Bearing.	Base.		Holding down Bolts.		Diam. of Bolts.	Number of Bolts.
			A	A^1	B	B^1		
Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	
1 11/16	2½	4	10	3¼	7½	..	¾	2
1 15/16	2½	4	10	3¼	7½	..	¾	2
2 3/16	2¾	5	11	4⅛	8⅝	..	⅞	2
2 7/16	2¾	5	11	4⅛	8⅝	..	⅞	2
2 11/16	3	6	12	4	8¾	..	1	2
2 15/16	3	6	12	4	8¾	..	1	2
3 3/16	4¾	12¼	14	6¼	11⅛	3⅝	..	4
3 7/16	4¾	12¼	14	6¼	11⅛	3⅝	..	4
3 11/16	5	13⅛	16¼	7	13	4	..	4
3 15/16	5	13⅛	16¼	7	13	4	..	4
4 7/16	5½	13	18½	7½	14½	4¾	..	4
4 15/16	6	14¼	19	9	15	5	..	4
5⅜	...	....	....	....	....	..	..	4
5⅞	7	15	21½	10	17	6	..	4
7⅞	9	16	30	12	24	7	..	4

TABLE OF DIMENSIONS

—FOR—

RIGID JOURNAL BOXES.



For list of prices see page 44.

Diameter of Shaft.	Distance from Centre of Shaft to base.	Length of Bearing	Base.		Holding-down Bolts.		Number of Bolts.
			A	A^1	B	Diameter of Bolts.	
Inches	Inches	Inches	Inches	Inches	Inches	Inches	
$\frac{15}{16}$	1⅝	4½	6¾	2½	5⅛	½	2
$1\frac{3}{16}$	1⅞	5	7½	2½	5¼	½	2
$1\frac{5}{16}$	2¼	5¾	8	2¾	5½	⅝	2
$1\frac{7}{16}$	2¼	5¾	8	2¾	5½	⅝	2
$1\frac{11}{16}$	2⅜	6⅜	9	3	6½	¾	2
$1\frac{15}{16}$	2¾	7	10½	3¼	7⅜	¾	2
$2\frac{3}{16}$	3¼	8	12	3¼	8½	⅞	2
$2\frac{7}{16}$	3½	8¾	13	3¾	9	⅞	2
$2\frac{11}{16}$	3½	9¾	14¾	4¼	9¾	1	2
$2\frac{15}{16}$	3⅞	9⅞	15	4½	10	1	2

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Makers of

Polished Iron and Steel Shafts.
Iron and Steel Spindles.
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Clamp Pulleys.
Loose Pulleys.
Flange Pulleys.
Guide, or Mule-Pulleys.
Binder and Carrier-Pulleys.
Cone-Pulleys.
Grooved Pulleys.
Clutch-Pulleys.
Friction-Pulleys.
Plain Hangers.
Bracket Hangers.
Adjustable Hangers.
Swivel-Hangers.
Floor-Stands.
Post-Stands.
Journal-Boxes.
Pillow-Blocks.
Plain-Bearings.
Side-Bearings.
Clamp-Boxes.
Wall-Boxes.
Sleeve-Boxes.
Wall Brackets.
Patent Internal Couplings.
Flange or Plate-Couplings.
Clutch-Couplings.
Friction-Couplings.
Universal-Joints.
Set-Screwed Collars.
Clamp-Collars.
Gears of all kinds.
Balance-Wheels.
Band-Wheels.
Chain-Wheels.
Rope-Wheels.
Drums.
Conveyors.
Conveyor-Bearings.
Gudgeons.
Gudgeon-Stands.
Gudgeon-Couplings.
Bridge-Pots.
Steps.
Sewing-Machine Frictions.

Etc., etc., etc.